3.3.1 Number of research papers published per teacher in the Journals notified on UGC website during the last five years

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S. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
1	Nanoparticles Addition Effect during Friction Stir Welding Of Al-Mmcs	TANVIR SINGH	Mechanical Engineering	Pubtexto	Sep-21	ISSN: 2694-3808		https://www.pubtexto.com/article_pdf/698/1033/pubtexto_698_1033_18092021105405.pdf	Other
2	Processing of friction stir welded AA6061-T6 joints reinforced with nanoparticles	TANVIR SINGH	Mechanical Engineering	Results in Materials	Dec-21	ISSN 2590-048X		https://www.sciencedirect.com/science/article/pii/S2590048X21000431?via%3Dihub	SCOPUS
3	Bespoke flow experiments to capture the dynamics of coughs and sneezes	Prateek Bahl	Mechanical Engineering	Measurement Science and Technology	Sep-21	ISSN 09570233, 13616501	https://iopscience.iop.org/journal/0957-0233	https://iopscience.iop.org/article/10.1088/1361-6501/ac2010/meta	SCOPUS
4	Experimental investigation of spout incoherence in a spouted bed	Prateek Bahl	Mechanical Engineering	Chemical Engineering Journal	Aug-21	ISSN 1385-8947	https://www.sciencedirect.com/journal/chemical-engineering-journal	https://www.sciencedirect.com/science/article/abs/pii/S1385894721009086	SCOPUS
5	Flow dynamics of droplets expelled during sneezing	Prateek Bahl	Mechanical Engineering	Physics of Fluids	2-Nov-21	1070-6631 (print) 1089-7666 (web)	https://aip.scitation.org/journal/phf	https://aip.scitation.org/doi/full/10.1063/5.0067609	SCOPUS

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6	The ability of face masks to reduce transmission of microbes	Prateek Bahl	Mechanical Engineering	Clinical and Experimental Optometry	30-Sep-21	14440938, 08164622	https://www.tandfonline.com/journals/tceo20	https://www.tandfonline.com/doi/abs/10.1080/08164622.2021.1971050	SCOPUS
7	Analytical and Experimental Characterization of Friction Force in Belt Motion	Abhinav Panwar	ME	International Journal of Innovative Research in Science, Engineering and Technology	Jul-21	e-ISSN: 2319-8753	http://www.ijirset.com/	http://www.ijirset.com/upload/2021/july/257_Analytical_NC.pdf	Other
8	Analysis of Brain Region Segmentation Methods	Dimple Saproo	ECE	International Journal of Innovativ	Jul-21	e-ISSN: 2319-8753, p-ISSN: 2347-6710	http://www.ijirset.com/	http://www.ijirset.com/upload/2021/july/318_Analysis_NC.pdf	Other
9	Effect of 532 nm Nd:YAG laser irradiation on the optical properties of Ge1Se2.5 glass film	Deepika	ECE	Journal of Modern Optics	30-Jul-21	ISSN 0950-0340 (print) 1362-3044 (web)	https://www.tandfonline.com/journals/tmop20	https://www.tandfonline.com/doi/abs/10.1080/09500340.2021.1956614?journalCode=tmop20	SCOPUS
10	Recent innovations in properties of nanostructured glasses and composites	Deepika	ECE	Journal of Experimental Nanoscience	13-Jul-21	1745-8099	https://www.tandfonline.com/journals/tjen20	https://www.tandfonline.com/doi/full/10.1080/17458080.2021.1940221	SCOPUS

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11	Effect of Bi addition on optical properties of Se–Te–Bi films	Deepika	ECE	Indian Journal of Physics	16-Oct-21	0973-1458 (print); 0974-9845 (web)	https://www.springer.com/journal/12648	https://link.springer.com/article/10.1007/s12648-020-01862-9	SCOPUS
12	SURFACE MODIFICATION OF SS-316 TO ENHANCE CAVITATION RESISTANCE THROUGH COMPOSITE MICROWAVE CLADS	Sandeep Bansal	ME	Surface Review and Letters	11-Aug-21	ISSN (print): 0218-625X | ISSN (online): 1793-6667	https://www.worldscientific.com/worldscinet/srl	https://www.worldscientific.com/doi/abs/10.1142/S0218625X21410043	Web of Science
13	Development and characterization of multiwalled carbon nanotube-reinforced microwave sintered hybrid aluminum metal matrix composites: An experimental investigation on mechanical and tribological performances	Sandeep Bansal	ME	Proceedings of the Institution of Mechanical Engineers Part L Journal of Materials Design and Applications	2-Jul-21	ISSN No. 1464-4207	https://journals.sagepub.com/home/PIL	https://journals.sagepub.com/doi/10.1177/14644207211028969	SCOPUS
14	Microwave Cladding of NiCrSiC-5Al2O3 on Austenitic Stainless Steel to Improve Cavitation Erosion Resistance	Sandeep Bansal	ME	Surface Topography: Metrology and Properties	2-Sep-21	ISSN No. 2051672X	https://iopscience.iop.org/journal/2051-672X	https://iopscience.iop.org/article/10.1088/2051-672X/ac2032	SCOPUS

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15	Free Energy Landscape and Proton Transfer Pathways of the Transimination Reaction at the Active site of the Serine Hydroxymethyltransferase Enzyme in Aqueous Medium	Dr. Soniya Kumari	CSE	The Journal of Physical Chemistry B	25-Oct-21	ISSN: 1520-5207	https://pubs.acs.org/journal/jpcafh	https://pubs.acs.org/doi/abs/10.1021/acs.jpcb.1c05864	SCOPUS /Web of Science
16	L-cysteine functionalized graphene quantum dots for sub-ppb detection of As (III)	Dr. JAMILUR Rahman ANSARI	CSE	Nanotechnology	19-Nov-21	ISSN 0957-4484	https://iopscience.iop.org/journal/0957-4484	https://iopscience.iop.org/article/10.1088/1361-6528/ac353b	SCOPUS
17	Calcium Oxide Supported on Coal Fly Ash (CaO/CFA) as an Efficient Catalyst for Biodiesel Production from Jatropha curcas Oil	Dr. Manoj Kumar	CSE (AIML)	Topics in Catalysis	26-Jul-21	e ISSN 1572-9028 p ISSN 1022-5528	https://www.springer.com/journal/11244	https://link.springer.com/article/10.1007/s11244-021-01478-1	SCOPUS /UGC Car
18	Genesis of a Severe Dust Storm Over the Indian Subcontinent:	Surender Dhaka	CSE(Iot)	Earth and Space Science	17-Aug-21	Online ISSN:2333-5084	https://agupubs.onlinelibrary.wiley.com/journal/23335084	https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021EA001702	SCOPUS /Web of Science
19	A technical review on application oriented comparative	Neha Verma	ECE	2021 6th International Conference on	8-Jul-21			https://ieeexplore.ieee.org/document/9489062	Scopus

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20	Novel method of nanoparticle addition for friction stir welding of aluminium alloy	TANVIR SINGH	Mechanical Engineering	Advances in Materials and Processing Technologies	Jan-22	ISSN 2374068X, 23740698	https://www.tandfonline.com/journals/tmpt20	https://www.tandfonline.com/doi/abs/10.1080/2374068X.2020.1855397?journalCode=tmpt20	SCOPUS
21	Investigation about machining issues in turning process of EN-31 steel	Arpit Srivastava	Robotics and Automation	Materials Today: Proceedings	2022	ISSN 2214-7853		https://www.sciencedirect.com/science/article/pii/S2214785321067432	SCOPUS
22	Shallow Lakes Water Level Estimation using Satellite Optical Imagery and Digital Elevation Models Over the Persian Plateau, Iran	Ritesh EpariPatro	CSIT	EGU General Assembly Conference Abstracts	May-22			https://ui.adsabs.harvard.edu/abs/2022EGUGA..24.2927A/abstract	Other
23	Soil Moisture Estimation using Remote Sensing Method	Akancha Shekher	ECE	International Journal of Applied Engineering Research	Jan-Feb-2022	ISSN 0973-4562	https://www.ripublication.com/ijaer.htm	https://www.ripublication.com/ijaer22/ijaerv17n1_07.pdf	Other
24	Analysing Front-End Engineering and its Libraries and Frameworks in Web	Ashima Mehta	CSE	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)	Jun-22	ISSN (Online) 2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper4977.pdf	Other

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25	Ultra-Wideband Compact Circularly Polarized Antenna	Dr. Ekta Thakur	ECE	Wireless Personal Communications	14-Sep-21	ISSN: 1572834X, 09296212	https://www.springer.com/journal/11277	https://link.springer.com/article/10.1007/s11277-021-09137-0	SCOPUS
26	Studies on superparamagnetic behaviour of Ni100-xCux alloy films deposited by DC magnetron sputtering	Dr. JAMILUR Rahman ANSARI	CSE	Materials Research Innovations	2-Oct-21	ISSN 1433075X, 14328917	https://www.tandfonline.com/journals/ymri20	https://www.tandfonline.com/doi/abs/10.1080/14328917.2021.1987069?journalCode=ymri20	SCOPUS
27	Silver Nanoparticles Decorated Two Dimensional MoS2 Nanosheets for Enhanced Photocatalytic Activity	Dr. JAMILUR Rahman ANSARI	CSE	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Feb-22	Online ISSN: 1873-4359 Print ISSN: 0927-7757	https://www.sciencedirect.com/journal/colloids-and-surfaces-a-physicochemical-and-engineering-aspects	https://www.sciencedirect.com/science/article/abs/pii/S0927775721019713?via%3Dihub	SCOPUS
28	STUDIES ON THE HEATING ABILITY BY VARYING THE SIZE OF Fe3O4 MAGNETIC NANOPARTICLES FOR HYPERTHERMIA	Dr. JAMILUR Rahman ANSARI	CSE	Nanoscience and Technology: An International Journal	Jan-March-2022	ISSN Print: 2572-4258 ISSN Online: 2572-4266	https://www.dl.begellhouse.com/journals/11e12455066dab5d.html	https://www.dl.begellhouse.com/journals/11e12455066dab5d,4e33a4727283f141,6bd6a5e14d14a277.html	SCOPUS
29	Hybrid Cuckoo Search Algorithm for Scheduling in Cloud Computing	Dr. Manoj Kumar	CSE (AIML)	Computers, Materials and Continua	3-Nov-21	ISSN:1546-2218(print) ISSN:1546-2226(online)	https://www.techscience.com/cmc/special_detail/metaheuristic-techniques	https://www.techscience.com/cmc/v71n1/45426	SCOPUS /Web of Science

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30	Scheduling in IaaS Cloud Computing Environment using Sailfish Optimization Algorithm	Dr. Manoj Kumar	CSE (AIML)	Trends Sci. or TiS	May-22	ISSN 2774-0226 (Online)	https://tis.wu.ac.th/index.php/tis/index	https://tis.wu.ac.th/index.php/tis/article/view/4204	SCOPUS
31	Änalysis of K-Means Clustering Algorithm	Dr. Shipra Arora	CSE	International Journal of Engineering Research & Technology(IJERT)	Jun-22	ISSN:2278-0181	https://www.ijert.org/	https://www.ijert.org/analysis-of-k-means-clustering-algorithm	Other
32	Early Detection Technique of Diabetic Retinopathy - Survey Analysis	Dimple Saproo	ECE	Journal of Information and Computational Science	Apr-22	ISSN: 1548-7741	https://joics.org/	https://www.researchgate.net/publication/359992558_Early_Detection_Technique_of_Diabetic_Retinopathy_-_Survey_Analysis	Other
33	Temperature Perturbations in the Troposphere and Lower Stratosphere Over a Semi-arid Region During the 2010 Solar Eclipse	Surender Dhaka	CSE(Iot)	Pure and Applied Geophysics	2022	Online ISSN: 1420-9136 Print ISSN: 0033-4553	https://www.springer.com/journal/24	https://link.springer.com/article/10.1007/s00024-022-03045-5	SCOPUS
34	Past, Present and Future Perspectives of Seasonal Prediction of Indian Summer Monsoon Rainfall: A Review	Ritesh EpariPatro	CSIT	Asia-Pacific Journal of Atmospheric Sciences	15-Mar-22		https://www.springer.com/journal/13143	https://link.springer.com/article/10.1007/s13143-022-00273-6	SCOPUS

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35	Towards realistic simulations of human cough: Effect of droplet emission duration and spread angle	Prateek Bahl	Mechanical Engineering	International Journal of Multiphase Flow	Feb, 2022	ISSN 0301-9322	https://www.sciencedirect.com/journal/international-journal-of-multiphase-flow	https://www.sciencedirect.com/science/article/pii/S0301932221002974	SCOPUS
36	A blueprint for well-designed, high-performing cloth masks that can outperform a 3-layered surgical mask	Prateek Bahl	Mechanical Engineering	Safety and Health at Work	Jan, 2022	ISSN 2093-7911	https://www.ncbi.nlm.nih.gov/pmc/?term=Elsevier%20Public%20Health%20Emergency%20Collection[filter]	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8817362/	SCOPUS
37	Passive PV module cooling under free convection through vortex generators	Prateek Bahl	Mechanical Engineering	ewable Ene	May, 2022	ISSN 0960-1481	https://www.sciencedirect.com/journal/renewable-energy	https://www.sciencedirect.com/science/article/abs/pii/S0960148122004177	SCOPUS
38	Airborne or Droplet Precautions for Health Workers Treating Coronavirus Disease 2019?	Prateek Bahl	Mechanical Engineering	The Journal of infectious diseases	May, 2022	0022-1899 (print) 1537-6613 (web)	https://academic.oup.com/jid/issue/225/9	https://academic.oup.com/jid/article/225/9/1561/5820886	SCOPUS
39	Mapping the divergent perspectives surrounding Finnish hydropower and its removal	Ritesh Epari Patro	CSIT	Transdisciplinary Research and Design	14-Feb-22		https://interact.oulu.fi/trad2022	https://www.researchgate.net/publication/361639323_Mapping_the_divergent_perspectives_surrounding_Finnish_hydropower_and_its_removal	Other

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40	Methodology for designing and fabricating a novel SEABIN used in the marine industries	Yudhveer Kumar Verma	ME	10th International Conference on Advancements in Engineering and Technology (ICAET-2022)	2022	ISBN No: 978-81-924893-7-7		https://ggnindia.dronacharya.info/Downloads/Admin/ICAET-2022-PAPER-21122022.pdf	Other
41	Electricity Price Forecasting Using LSTM Network and K-Means Clustering by Considering the Effect of Wind Power Generation	Dr. JYOTHI VARANASI	EEE	Advanced Energy and Control Systems	4-Jan-22	Series ISSN 1876-1100	https://www.springer.com/series/7818	https://link.springer.com/chapter/10.1007/978-981-16-7274-3_3	SCOPUS
42	Reduced Graphene Oxide and Nanoparticles Incorporated Durable Electroconductive Silk Fabrics	Prateek Bahl	Mechanical Engineering	Advanced Materials Interfaces	26-Aug-20	ISSN: 2196-7350 (online)	https://onlinelibrary.wiley.com/journal/21967350	https://onlinelibrary.wiley.com/doi/abs/10.1002/admi.202000814	Other
43	Nanoparticles incorporated graphene-based durable cotton fabrics	Prateek Bahl	Mechanical Engineering	Carbon	Sept.-2020	ISSN 0008-6223	https://www.sciencedirect.com/journal/carbon	https://www.sciencedirect.com/science/article/abs/pii/S000862232030470X	SCOPUS
44	An experimental framework to capture the flow dynamics of droplets expelled by a sneeze	Prateek Bahl	Mechanical Engineering	Experiments in Fluids	18-Jul-20	1432-1114	https://www.springer.com/journal/348	https://link.springer.com/article/10.1007/s00348-020-03008-3	SCOPUS

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45	Face coverings and mask to minimise droplet dispersion and aerosolisation: a video case study	Prateek Bahl	Mechanical Engineering	Thorax	Nov-20	0040-6376 (print) 1468-3296 (web)	https://thorax.bmj.com/	https://thorax.bmj.com/content/75/11/1024.abstract	Other
46	Influence of microwave heating on metallurgical and mechanical properties of Ni-40Cr3C2 composite clads in the context of cavitation erosion resistance characteristics	Sandeep Bansal	ME	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	13-Jul-20	ISSN No. 20412983, 09544062	https://journals.sagepub.com/	https://journals.sagepub.com/doi/10.1177/0954406220940348	SCOPUS
47	Cavitation erosion behavior of microwave-processed Ni–40Cr3C2 composite clads: A parametric investigation using ultrasonic apparatus	Sandeep Bansal	ME	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	30-Sep-20	ISSN No. 1464-4207	https://journals.sagepub.com/	https://journals.sagepub.com/doi/10.1177/1464420720961122	SCOPUS
48	Synthesis and magnetic properties of stable cobalt nanoparticles decorated reduced graphene oxide sheets in the aqueous medium	Dr. JAMILUR Rahman ANSARI	CSE	Journal of Materials Science: Materials in Electronics	3-Aug-20	ISSN 0957-4522	https://www.springer.com/journal/10854	https://link.springer.com/article/10.1007/s10854-020-04075-2	SCOPUS

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49	Amitav Ghosh: Crafting on Contemporary Literature	Anchal Bhutani	CSE	Contemporary Literary Review India	Nov-20	Online ISSN 2394-6075	https://literaryjournal.in/index.php/clri/index	https://literaryjournal.in/index.php/clri/article/view/710	Other
50	Reliability Analysis of a Redundant System with 'FCFS' Repair Policy Subject to Weather Conditions	Dr. Ashok Kumar	CSE	International Journal of Advanced Science and Technology	2020	ISSN: 2005-4238 (Print) ISSN: 2207-6360 (Online)		http://sersc.org/journals/index.php/IJAST/article/view/7995	SCOPUS
51	Can Delhi's Pollution be Affected by Crop Fires in the Punjab Region?	Surender Dhaka	CSE(Iot)	Scientific online letters on the Atmosphere: SOLA	2020	Online ISSN : 1349-6476 ISSN-L : 1349-6476	https://www.jstage.jst.go.jp/browse/-char/en	https://www.jstage.jst.go.jp/article/sola/16/0/16_2020-015/_article	UGC CARE
52	Market Models and Operating Mechanism for Renewable Energy Enabled Indian Electricity Market	Dr. JYOTHI VARANASI	EEE	Smart Grids and Sustainable Energy	5-Dec-20	Electronic ISSN 2731-8087	https://www.springer.com/journal/40866	https://link.springer.com/article/10.1007/s40866-020-00097-1	UGC CARE

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53	PM2.5 diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology	Surender Dhaka	CSE(Iot)	Scientific Reports	10-Aug-20	ISSN 2045-2322 (online)	https://www.nature.com/srep/	https://www.nature.com/articles/s41598-020-70179-8	UGC CARE
54	Long term variability of carbonaceous aerosol over Southeast Asia: Association with changes in vegetation cover and biomass burning	Gayatry Kalita	CSE	American Geophysical Union, Fall Meeting 2020	December, 2020			https://ui.adsabs.harvard.edu/abs/2020AGUFMA177.0016K/abstract	Other
55	Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning	Gayatry Kalita	CSE	Atmospheric Research	15-Nov-20			https://www.sciencedirect.com/science/article/pii/S016980951931659X	SCOPUS
56	Particle tracking experiments to capture droplet velocities in human exhalations	Prateek Bahl	Mechanical Engineering	APS Division of Fluid Dynamics (Fall) 2020	2020		https://meetings.aps.org/Meeting/DFD20/Content/3927	https://ui.adsabs.harvard.edu/abs/2020APS..DFDT09005B/abstract	Other

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57	Safe Engineering Application for Detection of Medical Image Using Deep Convolutional Neural Network	Amar Saraswat	CSE	Journal of Green Engineering	Nov-20	ISSN: 1904-4720 (Print) 2245-4586 (Online)	http://www.jgenng.com/journal-description.php	https://www.researchgate.net/publication/350188817_Safe_engineering_application_for_detection_of_medical_image_using_deep_convolutional_neural_network	SCOPUS
58	Droplets and Aerosols Generated by Singing and the Risk of Coronavirus Disease 2019 for Choirs	Prateek Bahl	Mechanical Engineering	Clinical Infectious Diseases	May-21	Online ISSN 1537-6591. Print ISSN 1058-4838		https://academic.oup.com/cid/article/72/10/e639/5908276	SCOPUS
59	Towards capturing a database of respiratory exhalations from flow visualisations	Prateek Bahl	Mechanical Engineering	14th International Symposium on Particle Image Velocimetry	8-Jan-21		https://ispiv21.library.iit.edu/index.php/ISPIV/index	https://ispiv21.library.iit.edu/index.php/ISPIV/article/view/74	Other
60	Experimental Evidence for the Optimal Design of a High-Performing Cloth Mask	Prateek Bahl	Mechanical Engineering	ACS biomaterials science & engineering	May-21	ISSN: 2373-9878	https://pubs.acs.org/journal/absbeba	https://pubs.acs.org/doi/pdf/10.1021/acsbiomaterials.1c00368	SCOPUS
61	Assessment of Reservoir Storage Capacity Loss and Investigating the Effects of Climate Variability on Reservoir Sedimentation in Italy	Ritesh EpariPatro	CSIT	EGU21 EGU General Assembly	Apr-21		https://www.egu21.eu/	https://meetingorganizer.copernicus.org/EGU21/EGU21-2651.html	Other

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62	Parametric optimization and analysis of cavitation erosion	Sandeep Bansal	ME	Surface Topography: Metrology and	28-Jan-21	ISSN No. 2051672X	https://iopscience.iop.org/journal/2051-672X	https://iopscience.iop.org/article/10.1088/2051-672X/abda94	SCOPUS
63	Miniaturized four-port UWB MIMO antennas with triple-band rejection using single EBG structures	Dr. Ekta Thakur	ECE	International Journal of Microwave and Wireless Technologies	15-Mar-21	ISSN: 1759-0787 (Print), 1759-0795 (Online)	https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies	https://tinyurl.com/3xbfhj3t	SCOPUS /Web of Science
64	Unique photoluminescence response of MoS2 quantum dots over a wide range of As (III) in aqueous media	Dr. JAMILUR Rahman ANSARI	CSE	Nanotechnology	4-Jun-21	ISSN 0957-4484	https://iopscience.iop.org/journal/0957-4484	https://iopscience.iop.org/article/10.1088/1361-6528/abfee8	SCOPUS
65	Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology	Dr. JAMILUR Rahman ANSARI	CSE	Applied Physics A	29-Jun-21	0947-8396 (print) 1432-0630 (web)	https://www.springer.com/journal/339	https://link.springer.com/article/10.1007/s00339-021-04697-1	SCOPUS
66	Step by Step Development and Implementation of FS-MPC for FPGA based PMSM Drive System	Vijay Kumar Singh	ME	Electronics	5-Feb-21	ISSN: 2079-9292	https://www.mdpi.com/journal/electronics	https://www.mdpi.com/2079-9292/10/4/395	SCOPUS

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67	Energy Efficient Scheduling in Cloud Computing using Black Widow Optimization	Dr. Manoj Kumar	CSE (AIML)	Journal of Physics Conference Series	27-Feb-21	e-ISSN: 1742-6596 p-ISSN: 1742-6588	https://iopscience.iop.org/journal/1742-6596	https://iopscience.iop.org/article/10.1088/1742-6596/1950/1/012063	SCOPUS
68	META-HEURISTICS TECHNIQUES IN CLOUD COMPUTING: APPLICATIONS AND CHALLENGES	Dr. Manoj Kumar	CSE (AIML)	Indian Journal of Computer Science and Engineering	Mar-Apr-2021	e-ISSN:0976-5166 p-ISSN:2231-3850	http://www.ijcse.com/index.html	http://www.ijcse.com/abstract.html?file=21-12-02-055	Other
69	R.K. Narayan - A Concept Storyteller	Anchal Bhutani	CSE	Literary Herald	Feb-21	ISSN2454-3365	https://tlhjournal.com/	http://tlhjournal.com/uploads/products/38.anchal-bhutani-article.pdf	Other
70	Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region	Isha Arora	EEE	Advances in Systems Engineering	24-Jan-21	Series E-ISSN 2195-4364	https://link.springer.com/book/10.1007/978-981-15-8025-3	https://link.springer.com/chapter/10.1007/978-981-15-8025-3_42	SCOPUS
71	Identification and Classification of Brain Tumors with Optimized Neural Network and Canny Edge Detection Algorithm	Amar Saraswat	CSE	Annals of the Romanian Society for Cell Biology	Jan-21	ISSN: 1583-6258	https://www.annalsofrscb.ro/index.php/journal/index	https://www.annalsofrscb.ro/index.php/journal/article/view/724	Scopus

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72	The impact of recent changes in Asian anthropogenic emissions of SO2 on sulfate loading in the upper troposphere and lower stratosphere and the associated radiative changes	Gayatry Kalita	CSE	Atmospheric Chemistry and Physics	9-Aug-19	eISSN: ACP 1680-7324, ACPD 1680-7375	https://www.atmospheric-chemistry-and-physics.net/home.html	https://acp.copernicus.org/articles/19/9989/2019/	Scopus
73	Friction-stir welding of AA6061-T6: The effects of Al2O3 nano-particles addition	TANVIR SINGH	Mechanical Engineering	Results in Materials	Aug-19	ISSN 2590-048X	https://www.sciencedirect.com/journal/results-in-materials	https://www.sciencedirect.com/science/article/pii/S2590048X19300056?via%3Dihub	Scopus
74	Effect of nano-sized particles on grain structure and mechanical behavior of friction stir welded Al-nanocomposites	TANVIR SINGH	Mechanical Engineering	The Journal of Materials: Design and Applications	4-Nov-19	ISSN 14644207, 20413076	https://journals.sagepub.com/	https://journals.sagepub.com/doi/10.1177/1464420719885156	SCOPUS/Web of Science
75	Production of AA6061-T6/Al2O3 reinforced nanocomposite using friction stir welding	TANVIR SINGH	Mechanical Engineering	Engineering Research Express	13-Dec-19	ISSN 26318695	https://iopscience.iop.org/journal/2631-8695	https://iopscience.iop.org/article/10.1088/2631-8695/ab5e27	SCOPUS

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76	Water-energy nexus for an Italian storage hydropower plant under multiple drivers	Ritesh EpariPatro	CSIT	Water	4-Sep-19	ISSN: 2073-4441	https://www.mdpi.com/journal/water	https://www.mdpi.com/2073-4441/11/9/1838	SCOPUS
77	AC conductivity and dielectric relaxation of Se80–xTe20Bix (x=6, 12) glasses	Deepika	ECE	Physics and Chemistry of Glasses - European Journal of Glass Science and Technology	Dec-19	ISSN 1753-3562 (Print)	https://www.ingentaconnect.com/content/sgt/ejgst	https://www.ingentaconnect.com/content/sgt/ejgst/2019/00000060/00000006/art00002	Other
78	Dielectric relaxation and AC conductivity behaviour of Se80Te15Bi5/PVA nanocomposite film	Deepika	ECE	Polymer Testing	Oct-19	ISSN 0142-9418	https://www.sciencedirect.com/journal/polymer-testing	https://www.sciencedirect.com/science/article/abs/pii/S0142941819305835?via%3Dihub	SCOPUS
79	Effect of Pb Addition on Optical and Spectral Properties of Se–Ge Thin Films	Deepika	ECE	Glass Physics and Chemistry	2-Jul-19	ISSN PRINT : 1087-6596. ISSN ONLINE: 1608-313X	https://www.springer.com/journal/10720	https://link.springer.com/article/10.1134/S1087659619030027	SCOPUS
80	Study of electrical conduction in nanostructured Se2.5Ge1-xSnx (x=0, 0.3, 0.5) thin films	Deepika	ECE	Materials Today: Proceedings	2019	ISSN 2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings/vol/18/part/P3	https://www.sciencedirect.com/science/article/pii/S2214785319318991?via%3Dihub	SCOPUS

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81	Heart Disease Prediction system	Pankaj Kumari	CSE	International Journal of Science, Technology and Management	2019				
82	Design of Compact UWB MIMO Antenna with Enhanced Bandwidth	Dr. Ekta Thakur	ECE	Progress In Electromagnetics Research C	29-Nov-19	ISSN : 19378718	https://www.jpier.org/	https://www.jpier.org/issues/volume.html?paper=19083004	SCOPUS
83	An efficient text-independent speaker verification for short utterance data from Mobile devices	SANGHAMITRA VIKAS ARORA	ECE	Multimedia Tools and Applications	5-Dec-19	Electronic ISSN 1573-7721 Print ISSN 1380-7501	https://www.springer.com/journal/11042	https://link.springer.com/article/10.1007/s11042-019-08196-7	SCOPUS
84	Efficient Utilization of Transformer by reducing Leakage Current using Bidirectional Converter	Dr. RADHAKRISHNAN DHEIVANAI	EEE	Journal of Electrical Engineering (JEE)	2019	ISSN 1582-4594		http://www.jee.ro/index.php/jee/article/view/WS1546278712W5c2a573882c96	Other
85	Controlling self-assembly of ultra-small silver nanoparticles: Surface enhancement of Raman and fluorescent spectra	Dr. JAMILUR Rahman ANSARI	CSE	Optical Materials	Aug-19	0925-3467 (print) 1873-1252 (web)	https://www.sciencedirect.com/journal/optical-materials	https://www.sciencedirect.com/science/article/abs/pii/S0925346719303222?via%3Dihub	SCOPUS

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86	Priority-Based Virtual Machine Selection Algorithm in Cloud Computing	Dr. Manoj Kumar	CSE (AIML)	International Journal of Recent Technology and Engineering (IJRTE)	Sep-19	ISSN: 2277-3878,	https://www.ijrte.org/	https://www.ijrte.org/wp-content/uploads/papers/v8i3/B3752078219.pdf	SCOPUS
87	Mechanical Characterization Of Dissimilar Welded Joint Of SS202 And SS304 By Tungsten Inert Gas Welding	Poshan Lal Sahu	ME	International Journal of Research in Engineering and Innovation (IJREI)	July-Aug-2019	ISSN (Online): 2456-6934	http://www.ijrei.com/	https://ijrei.com/controller/aviation/Mechanical%20characterization%20of%20dissimilar%20welded%20joint%20of%20SS202%20and%20SS304%20by%20tungsten%20inert%20gas%20welding.pdf	Other
88	Weathering Server System with Non-identical Units and Priority to Repair of Main Unit	Dr. Ashok Kumar	CSE	Journal of Advanced Research in Dynamical and Control Systems	2019	ISSN: 1943-023X	http://jardcs.org/	http://jardcs.org/abstract.php?id=2612	Other
89	Perturbations in Earth's Atmosphere over An Indian Region during the Total Solar Eclipse on 22 July 2009	Surender Dhaka	CSE(Iot)	Journal of Meteorological Research	30-Aug-19	Electronic ISSN 2198-0934 Print ISSN 2095-6037	https://www.springer.com/journal/13351	https://link.springer.com/article/10.1007/s13351-019-8056-7	UGC Approved

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90	Profit analysis of a system of non identical units with priority and preventive maintenance	Pooja Jain	IT	Communication and Computing Systems	2019	eBook ISBN9780429444272	https://www.taylorfrancis.com/books/edit/10.1201/9780429444272/communication-computing-systems-prasad-karan-singh-shyam-pandey-richard-kennedy?refId=50cec8ac-19fe-472c-9015-c73ea4118a50&context=ubx	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-34/profit-analysis-system-non-identical-units-priority-preventive-maintenance-vikas-garg-pooja-jain	SCOPUS
91	Profit analysis of a warm standby non-identical unit system with single server performing in normal/abnormal environment	Ashok Kumar	APS	Life Cycle Reliability and Safety Engineering	2019	2520-1352	https://www.springer.com/journal/41872	https://link.springer.com/article/10.1007/s41872-019-00083-2	SCOPUS
92	Cultivating Employability Skills For Entrepreneurship	Dr. Parul Mishra	Civil	Restaurant Business	Dec-19	ISSN:0097-8043	http://rbjournal.org/index.php/rb	https://www.academia.edu/42162476/Cultivating_Employability_Skills_For_Entrepreneurship	UGC Approved
93	Love, Desire And Ecstasy In Kalidasa's Play Malvikagnimitram	Dr. Parul Mishra	Civil	Think India Journal	Dec-19	ISSN 0971-1260	https://thinkindiaquarterly.org/index.php/think-india	https://thinkindiaquarterly.org/index.php/think-india/article/view/18058	UGC Care
94	FUNCTIONAL ASPECTS OF COMMUNICATION SKILLS FOR PROFESSIONAL EMPOWERMENT	Dr. Parul Mishra	Civil	Veda's Journal of English Language and Literature (JOELL)	Jan-20	ISSN: 2349-9753	https://joell.in/	https://joell.in/wp-content/uploads/2020/03/79-85-COMMUNICATION-SKILLS-FOR-PROFESSIONAL-EMPOWERMENT.pdf	Other

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95	Exploring Communicative Skills as Workforce for Dynamic Entrepreneurship	Dr. Parul Mishra	Civil	Pedagogical Research	8-May-20	e-ISSN: 2468-4929	https://www.pedagogicalresearch.com/	https://www.pedagogicalresearch.com/article/exploring-communicative-skills-as-workforce-for-dynamic-entrepreneurship-8249	Other
96	Mechanical and microstructural characterization of friction stir welded AA6061-T6 joints reinforced with nano-sized particles	TANVIR SINGH	Mechanical Engineering	Materials Characterization	Jan-20	ISSN 1044-5803	https://www.sciencedirect.com/journal/materials-characterization	https://www.sciencedirect.com/science/article/abs/pii/S1044580319326646?via%3Dihub	SCOPUS
97	Effects of Al2O3 nanoparticles volume fractions on microstructural and mechanical characteristics of friction stir welded nanocomposites	TANVIR SINGH	Mechanical Engineering	Nanocomposites	10-Jun-20	ISSN 2079-4991	https://www.tandfonline.com/journals/ynan20	https://www.tandfonline.com/doi/full/10.1080/20550324.2020.1776504	SCOPUS
98	Machining issues on Electrochemical Spark Machining—A review	Arpit Srivastava	Robotics and Automation	Materials Today: Proceedings	2020	ISSN 2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785320313481	SCOPUS
99	An experimental framework to capture droplets expelled during various respiratory exhalations	Prateek Bahl	Mechanical Engineering	22nd Australasian Fluid Mechanics Conference AFMC2020	2020			https://espace.library.uq.edu.au/view/UQ:81fe65c	Other

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100	Systematic Review and Evaluation of Mathematical Attack Models of Human Inhalational Anthrax for Supporting Public Health Decision Making and Response	Prateek Bahl	Mechanical Engineering	Prehospital and Disaster Medicine (PDM)	4-Jun-20	ISSN: 1049-023X (Print), 1945-1938 (Online)	https://www.cambridge.org/core/journals/prehospital-and-disaster-medicine#	https://tinyurl.com/3v4zs7u5	Web of Science
101	Experimental Investigation of Spout Deflection in a Rectangular Spouted Bed by the PIV Method	Prateek Bahl	Mechanical Engineering	Industrial & Engineering Chemistry Research	30-Jun-20	ISSN 15205045, 08885885	https://pubs.acs.org/journal/iecred	https://pubs.acs.org/doi/abs/10.1021/acs.iecr.0c02060#	Web of Science
102	Last-resort strategies during mask shortages: optimal design features of cloth masks and decontamination of disposable masks during the COVID-19 pandemic	Prateek Bahl	Mechanical Engineering	BMJ Open Respiratory Research	2020	2052-4439	https://bmjopenrespres.bmj.com/content/7/1/e000698.abstract	https://bmjopenrespres.bmj.com/content/7/1/e000698.abstract	Other
103	Micro-hydropower in drinking water gravity pipelines: a case study in Uttarakhand, India	Ritesh EpariPatro	CSIT	ISH journal of hydraulic engineering	Mar-20	09715010, 21643040	https://www.tandfonline.com/journals/tish20	https://www.tandfonline.com/doi/abs/10.1080/09715010.2018.1492977	SCOPUS

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104	Impact of Biotechnology on the Climate Change	Ritesh EpariPatro	CSIT	Environmental Processes and Management **Book**	18-Feb-20		https://link.springer.com/book/10.1007/978-3-030-38152-3	https://link.springer.com/chapter/10.1007/978-3-030-38152-3_7	SCOPUS
105	DETECTION OF SURFACE DEFECTS IN FRICTION STIR WELDED JOINTS BY USING A NOVEL MACHINE LEARNING APPROACH	Saloni Bhatia	ECE	Applied Engineering Letters	2020	e-ISSN: 2466-4847	https://aeletters.com/	https://www.aeletters.com/wp-content/uploads/2020/03/AEL00182.pdf	Other
106	Laser-induced optically modified Se58Ge27Pb15 and Se58Ge24Pb18 thin films	Deepika	ECE	Radiation Effects and Defects in Solids	4-Nov-19	ISSN 1042-0150	https://www.tandfonline.com/journals/grad20	https://www.tandfonline.com/doi/abs/10.1080/10420150.2019.1679143?journalCode=grad20	SCOPUS
107	Analysis of susceptor temperature during microwave heating and characterization of Ni-30Cr3C2 clads	Sandeep Bansal	ME	The Journal of Materials: Design and Applications	26-Mar-20	ISSN: 1464-4207 (print); 2041-3076 (web)	https://journals.sagepub.com/	https://journals.sagepub.com/doi/10.1177/1464420720914343?icid=int.sj-full-text.similar-articles.2	SCOPUS /Web of Science

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108	Potential applications of three-dimensional printing for anatomical simulations and surgical planning	Sandeep Bansal	ME	Materials Today Proceedings	2020	ISSN 2214-7853		https://www.sciencedirect.com/science/article/pii/S2214785320327383?via%3Dihub	SCOPUS
109	Investigation of Microwave Processing Parameters on Development of Ni-40Cr3C2 Composite Clad and Their Characterization	Sandeep Bansal	ME	Metallurgical and Materials Transactions A	25-May-20	ISSN No. 10735623, 15431940	https://www.springer.com/journal/11661	https://link.springer.com/article/10.1007/s11661-020-05832-y	SCOPUS
110	Experimental Analysis of Capillary Tube and Thermostatic Expansion Valve in Domestic Refrigerator Using Eco-Friendly Refrigerant	Yudhveer Kumar Verma	ME	World Academics Journal of Engineering Sciences	Mar-20	E-ISSN: 2348-635X	https://www.isroset.org/index.php	https://www.isroset.org/pdf_paper_view.php?paper_id=1788&4-WAJES-03191.pdf	Other
111	A hybrid model of generalized regression neural network and radial basis function neural network for wind power forecasting in Indian wind farms	Dr. JYOTHI VARANASI	EEE	Journal of Statistics and Management Systems	6-Feb-20	Print ISSN: 0972-0510 Online ISSN: 2169-0014	https://www.tandfonline.com/journals/tsms20	https://www.tandfonline.com/doi/abs/10.1080/09720510.2020.1721598	SCOPUS

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112	Forecasting the probability of solar power output using logistic regression algorithm	Dr. JYOTHI VARANASI	EEE	Journal of Statistics and Management Systems	6-Feb-20	Print ISSN: 0972-0510 Online ISSN: 2169-0014	https://www.tandfonline.com/journals/tsms20	https://www.tandfonline.com/doi/abs/10.1080/09720510.2020.1714146	SCOPUS
113	A Review on Obstacle Avoidance Techniques for Self-Driving Vehicle	Dr. ISHA MALHOTRA	ECE	International Journal of Advanced Science and Technology	Jan-20	ISSN: 2005-4238	http://sersc.org/journals/index.php/IJAST/index	https://www.researchgate.net/publication/342665591_A_Review_on_Obstacle_Avoidance_Techniques_for_Self-Driving_Vehicle	Other
114	FPGA-Based Implementation of Finite Set-MPC for a VSI System Using XSG-Based Modeling	Vijay Kumar Singh	ME	Energies	4-Jan-20	ISSN: 1996-1073	https://www.mdpi.com/journal/energies	https://www.mdpi.com/1996-1073/13/1/260	SCOPUS
115	Implementation Strategy for Resource Optimization of FPGA-Based Adaptive Finite Control Set-MPC using XSG for a VSI System	Vijay Kumar Singh	ME	IEEE Journal of Emerging and Selected Topics in Power Electronics	1-Jun-20	ISSN: 21686785, 21686777.	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6245517	https://ieeexplore.ieee.org/document/9104994	SCOPUS

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116	Database Creation and Dialect Wise Comparative Analysis of Prosodic Features for Punjabi Language	Dr. Shipra Arora	CSE	Journal of Intelligent Systems	19-Mar-20	e ISSN: 2191-026X p ISSN: 0334-1860	https://www.degruyter.com/journal/key/jisys/html	https://www.degruyter.com/document/doi/10.1515/jisys-2019-2511/html?lang=en	Web of Science
117	RELIABILITY MEASURES OF A 1-OUT-OF-2 SYSTEM WITH STANDBY AND DELAYED SERVICE	Pooja Jain	IT	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Jun-20	ISSN(P): 2249–6890 ; ISSN(E): 2249–8001	http://www.tjprc.org/journals/journal-of-mechanical-engineering	http://www.tjprc.org/publishpapers/2-67-1600061444-1212IJMPERDJUN20201212.pdf	Other
118	Smart Bin Using IOT for Smart Cities	Dr. RADHAKRISHNAN DHEIVANAI	EEE	International Journal of Scientific Research and Engineering Trends	Mar-Apr-2020	ISSN (Online): 2395-566X	https://ijsret.com/	https://ijsret.com/wp-content/uploads/2020/04/IJSRET_V6_issue2_282.pdf	Other
119	SMART GLOVES WITH HEALTH MONITORING AND SECURITY	Chandra Shekhar Singh	ECE	International Research Journal of Engineering and Technology (IRJET)	May-20	E-ISSN: 2395-0056 P-ISSN: 2395-0072	https://www.irjet.net/	https://www.irjet.net/archives/V7/i5/IRJET-V7I51082.pdf	Other

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120	Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs	Bindia Handa	ECE	Journal of Mobile Computing, Communications & Mobile Networks	October 5-6, 2018	ISSN: 2349-901X	https://computers.stmjournals.com/index.php?journal=JoMCCMN&page=index	https://computers.stmjournals.com/index.php?journal=JoMCCMN&page=article&op=view&path%5B%5D=2393	Other
121	Design of highly directive lens-less photoconductive dipole antenna array with frequency selective surface for terahertz imaging applications	Dr. ISHA MALHOTRA	ECE	Optik - International Journal for Light and Electron Optics	Nov-18	Print ISSN: 0030-4026	https://www.sciencedirect.com/journal/optik	https://www.sciencedirect.com/science/article/abs/pii/S0030402618311239?via%3Dihub	SCOPUS
122	Design of highly directive terahertz photoconductive dipole antenna using frequency-selective surface for sensing and imaging applications	Dr. ISHA MALHOTRA	ECE	Journal of Computational Electronics	24-Jul-18	Electronic ISSN 1572-8137 Print ISSN 1569-8025	https://www.springer.com/journal/10825	https://link.springer.com/article/10.1007/s10825-018-1217-6	SCOPUS
123	Hydropower Future: Between Climate Change, Renewable Deployment, Carbon and Fuel Prices	Ritesh Epari Patro	CSIT	Water	31-Aug-18		https://www.scopus.com/sourceid/21100255400	https://www.mdpi.com/2073-4441/10/9/1197	SCPOUS

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124	Design of Infrastructure as a Service (IAAS) Framework with Report Generation Mechanism	Ashima Mehta	CSE	International Journal of Applied Engineering Research	Nov-18	ISSN 0973-4562	http://www.ripublication.com/	https://www.ripublication.com/ijaer18/ijaerv13n2_18.pdf	UGC Approved
125	Optical characterization of nanostructured Ge1 − xSnxSe2.5 (x = 0, 0.3, 0.5) films	Deepika	ECE	Optical and Quantum Electronics	10-Dec-18	ISSN: 0306 8919, 1572817X	https://www.springer.com/journal/11082	https://link.springer.com/article/10.1007/s11082-018-1717-4	SCOPUS
126	Study of Hopping Conduction in Mn Doped CdS Nanoparticles	Deepika	ECE	Materials Focus	Oct-18	ISSN 2169-429X (Print); ISSN 2169-4303 (Online)	https://www.ingentaconnect.com/content/asp/mf;jsessionid=1mlhsn5cqmlr4.x-ic-live-02	https://www.ingentaconnect.com/content/asp/mf/2018/00000007/00000005/art00015;jsessionid=q14pnc6t79ft.x-ic-live-02	Other
127	Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films	Deepika	ECE	AIP Conference Proceedings	23-Aug-18		https://aip.scitation.org/journal/apc	https://aip.scitation.org/doi/abs/10.1063/1.5052088	SCOPUS
128	Electrical properties of Se80-xTe20Sbx (0 ≤ x ≤ 12) nanorods	Deepika	ECE	Materials Research Express	17-Aug-18	ISSN 2053-1591 (Online)	https://iopscience.iop.org/journal/2053-1591	https://iopscience.iop.org/article/10.1088/2053-1591/aad85c	SCOPUS

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129	Study of Electrical Properties of Nanostructured Se7Te20M6 (M = Bi, Sb) Thin Films	Deepika	ECE	Advanced Science, Engineering and Medicine (ASEM)	Ju;y-2018	ISSN 2164-6627 (Print); ISSN 2164-6635 (Online)	https://www.ingentaconnect.com/content/asp/asem	https://www.ingentaconnect.com/content/asp/asem/2018/00000010/f0020007/art00036	Other
130	Large-scale video classification with Convolutional Neural Networks	Pankaj Kumari	CSE	EEE Conference on Computer Vision and Pattern Recognition	2018				
131	Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna	Dr. Ekta Thakur	ECE	Lecture Notes in Electrical Engineering (LNEE)	20-Nov-18	Electronic ISSN 1876-1119 Print ISSN 1876-1100	https://www.springer.com/series/7818	https://link.springer.com/chapter/10.1007/978-981-13-2553-3_3	SCOPUS
132	Short Utterance Based Speaker Identification System For Resource Constrained Devices	SANGHAMITRA VIKAS ARORA	ECE	IEEE	24-Jun-19		https://ieeexplore.ieee.org/xpl/conhome/8740845/proceeding	https://ieeexplore.ieee.org/document/8742884	SCOPUS
133	Segmentation of Lung Cancer using Mark Region Growing and Median Filter	Tarun Thakural	ECE	International Journal of Computer Applications	Jul-18	ISSN: 0975 – 8887	https://www.ijcaonline.org/	https://www.ijcaonline.org/archives/volume181/number6/thukral-2018-ijca-917492.pdf	Other

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134	OWC IMAGE DE-NOISING FILTER PERFORMANCE COMPARSION USING MATLAB BASED GUI	Tarun Thakural	ECE	International Journal of Research in Electronics and Computer Engineering (IJRECE)	July-September-2018	ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE)	http://www.i2or-ijrece.com/	http://nebula.wsimg.com/26e69b89138a952e6cecf5e376ee26d9?AccessKeyId=DFB1BA3CED7E7997D5B1&disposition=0&alloworigin=1	Other
135	Detection and Extraction of Human Skin using concept of Fuzzy logics	Tarun Thakural	ECE	Journal of Emerging Technologies and Innovative Research (JETIR)	Aug-18	ISSN-2349-5162	https://www.jetir.org/	https://www.jetir.org/papers/JETIRA006109.pdf	UGC Approved
136	Dialectal Variations of Isolated Word Recognition	Dr. Shipra Arora	CSE	INFOCOMP Journal of Computer Science	2018	ISSN: 1807-4545 e-ISSN: 1982-3363		https://infocomp.dcc.ufla.br/index.php/infocomp/article/view/547	UGC Care
137	Economic Analysis of a Warm Standby System with Single Server	Dr. Ashok Kumar	CSE	International Journal of Mathematics and Statistics Invention (IJMSI)	Aug-18	E-ISSN: 2321 – 4767 P-ISSN: 2321 - 4759	https://www.ijmsi.org/	https://journals.indexcopernicus.com/api/file/viewByFileId/396623.pdf	Other

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138	Profit Analysis of a Warm Standby Non-Identical Units System with Single Server Subject to Priority	Dr. Ashok Kumar	CSE	International Journal on Future Revolution in Computer Science & Communication Engineering	Oct-18	ISSN: 2454-4248 (Online)	https://www.ijfrcsce.org/index.php/ijfrcsce/index	https://www.ijfrcsce.org/index.php/ijfrcsce/article/view/1772	Other
139	Detection of Solar Cycle Signal in the Tropospheric Temperature using COSMIC Data	Surender Dhaka	CSE(Iot)	CURRENT SCIENCE	Dec-18	ISSN 0011-3891	https://www.currentscience.ac.in/	https://www.currentscience.ac.in/Volumes/115/12/2232.pdf	UGC Approved
140	Detection of temperature variability and trends in the lower troposphere over Delhi: A study of joint influence of ENSO and Land use/ Land cover during 1980-2015: Temperature trends in lower troposphere over Delhi	Surender Dhaka	CSE(Iot)	Singapore Journal of Tropical Geography	2-Jul-18	ISSN: 1467-9493	https://onlinelibrary.wiley.com/journal/14679493	https://onlinelibrary.wiley.com/doi/10.1111/sjtg.12251	UGC Care and Scopus
141	Study of ambient air pollutants over Rishikesh at foothills of north-western Indian Himalaya	Surender Dhaka	CSE(Iot)	Indian Journal of Radio & Space Physics	Sept-Dec-2018		http://op.niscair.res.in/index.php/IJRSP/index	http://op.niscair.res.in/index.php/IJRSP/article/view/21064/465477770	UGC CARE

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Nanoparticles Addition Effect during Friction Stir Welding Of Al-Mmcs

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Article Info

Article History:
Received: 26 August, 2021
Accepted: 09 September, 2021
Published: 15 September, 2021

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Abstract

In recent years, automotive, marine, transportation, and aerospace sectors have demand for optimization of product design for lighter and high-performance materials. The need for weight reduction in such industries is to improve the fuel economy, increasing the capacity of payload, and meet the standards according to the policies of greenhouse gas emissions. The most effective way to achieve the goal of weight reduction without affecting the design performance is to use more advanced light materials. A large diversification of engineering light materials including aluminum, magnesium, and titanium alloys are available in the market. Considering its high strength to weight ratio and corrosive resistance, aluminum alloys are used widely for applications in the aerospace, transport, ship-building, and marine industries.

Keywords: Nanoparticles; Communication satellites

interface and moves along the joint line. Due to this action, the

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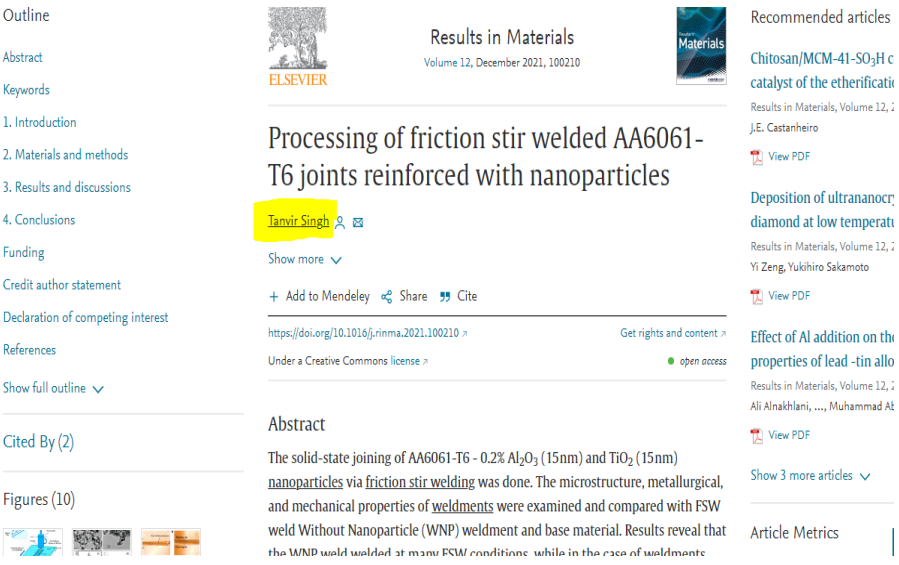

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Abstract

The solid-state joining of AA6061-T6 - 0.2% Al_2O_3 (15nm) and TiO_2 (15nm) nanoparticles via friction stir welding was done. The microstructure, metallurgical, and mechanical properties of weldments were examined and compared with FSW weld Without Nanoparticle (WNP) weldment and base material. Results reveal that the WNP weld welded at many FSW conditions, while in the case of weldments

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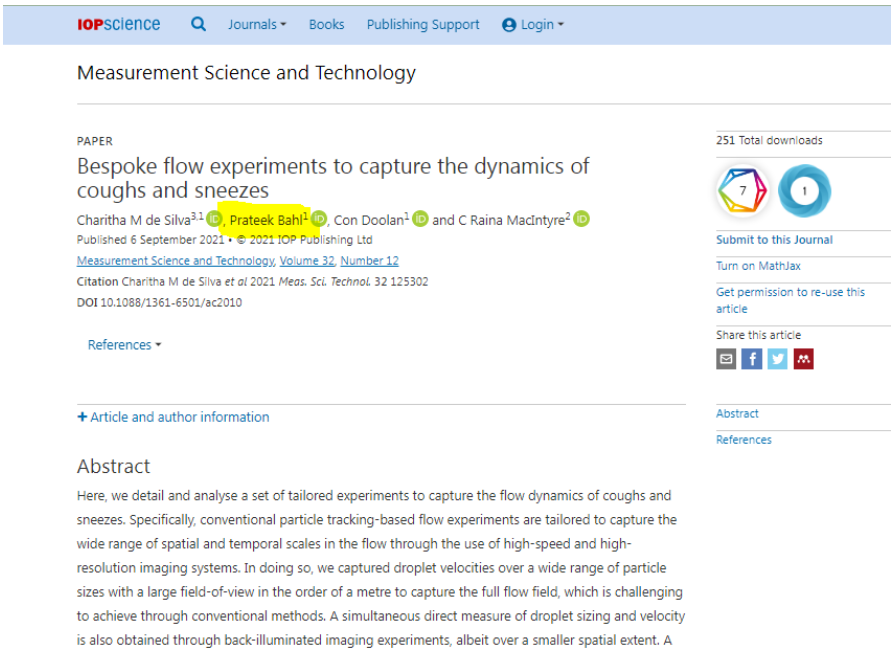

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Bespoke flow experiments to capture the dynamics of coughs and sneezes

Charitha M de Silva[3,1], Prateek Bahl[1], Con Doolan[1] and C Raina MacIntyre[2]

Published 6 September 2021 • © 2021 IOP Publishing Ltd

Measurement Science and Technology, Volume 32, Number 12

Citation Charitha M de Silva *et al* 2021 *Meas. Sci. Technol.* 32 125302

DOI 10.1088/1361-6501/ac2010

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+ Article and author information

Abstract

Here, we detail and analyse a set of tailored experiments to capture the flow dynamics of coughs and sneezes. Specifically, conventional particle tracking-based flow experiments are tailored to capture the wide range of spatial and temporal scales in the flow through the use of high-speed and high-resolution imaging systems. In doing so, we captured droplet velocities over a wide range of particle sizes with a large field-of-view in the order of a metre to capture the full flow field, which is challenging to achieve through conventional methods. A simultaneous direct measure of droplet sizing and velocity is also obtained through back-illuminated imaging experiments, albeit over a smaller spatial extent. A

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Experimental investigation of spout incoherence in a spouted bed

Yuanhe Yue [a], Shuai Wang [a], Prateek Bahl [b], Charitha de Silva [b], Yansong Shen [a]

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Abstract

Spout incoherence is a typical instability phenomenon in spouted beds, in which the particles in the spout region move upward as groups, leading to poor spouting stability and efficiency. In this paper, the moving particle blockage in the spout region is measured to quantify the spout incoherence for the first time, by means of depicting the regularity, frequency and particle blockage length of the spout incoherence phenomenon. Specifically, the particle blockage is quantified using the particle concentration obtained by image processing method based on intensity differences between gas and solid phase in the spout centreline. The centreline of the spout channel is located by the particle

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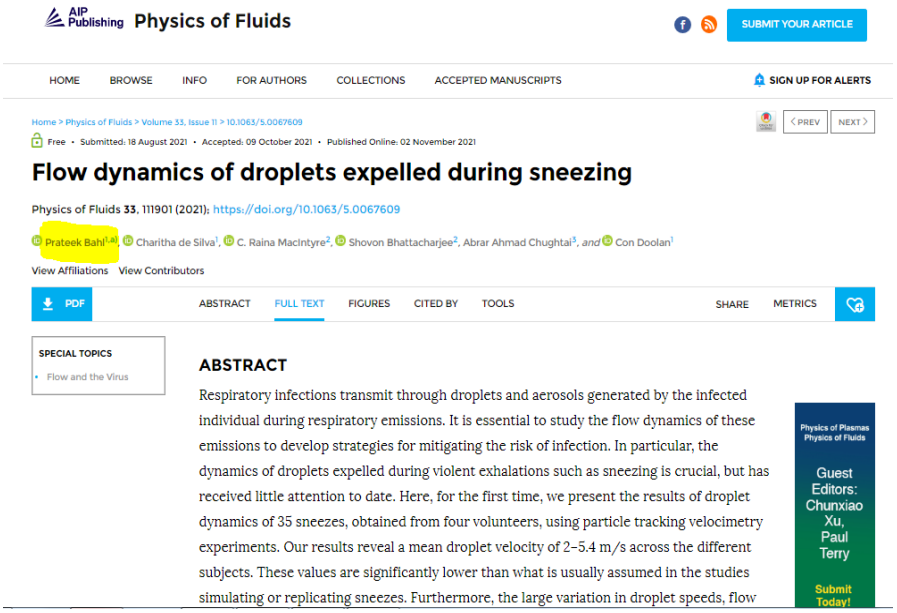

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Flow dynamics of droplets expelled during sneezing

Physics of Fluids **33**, 111901 (2021); https://doi.org/10.1063/5.0067609

Prateek Bahl[1,a], Charitha de Silva[1], C. Raina MacIntyre[2], Shovon Bhattacharjee[2], Abrar Ahmad Chughtai[2], *and* Con Doolan[1]

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ABSTRACT

Respiratory infections transmit through droplets and aerosols generated by the infected individual during respiratory emissions. It is essential to study the flow dynamics of these emissions to develop strategies for mitigating the risk of infection. In particular, the dynamics of droplets expelled during violent exhalations such as sneezing is crucial, but has received little attention to date. Here, for the first time, we present the results of droplet dynamics of 35 sneezes, obtained from four volunteers, using particle tracking velocimetry experiments. Our results reveal a mean droplet velocity of 2–5.4 m/s across the different subjects. These values are significantly lower than what is usually assumed in the studies simulating or replicating sneezes. Furthermore, the large variation in droplet speeds, flow

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Research

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ABSTRACT

Clinical relevance

Optometrists have been advised to wear face masks during the COVID-19 pandemic. This study examined whether face masks were equally protective against transmission of microbes.

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Name of the Author: Abhinav Panwar

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|| Volume 10, Issue 7, July 2021 ||

| DOI:10.15680/IJIRSET.2021.1007257|

Analytical and Experimental Characterization of Friction Force in Belt Motion

Sonu Yadav[1], Abhinav Panwar[2]

P.G. Student, Department of Mechanical Engineering, Dronacharya College of Engineering, Gurgaon, Haryana, India[1]

Associate Professor, Department of Mechanical Engineering, Dronacharya College of Engineering, Gurgaon, Haryana, India[2]

ABSTRACT: Dynamic friction force is the amount of force necessary to keep the two objects moving relative to each other. Till now only the analytical results regarding effect of relative velocity on dynamic friction are available which are based on several assumptions for simplifying the study. In this project, an effort has been made to characterize the dynamic friction force with relative velocity experimentally. In this project, we consider the classical "mass on a moving belt" model for describing friction-induced vibration. By using this model, we can study the stick-slip phenomena. In this work, an experimental setup is built to observe record and analyze friction damped oscillation. In this project, the dynamics of „mass on a moving belt" is solved numerically and the effect of different parameters on the response is studied and these computational results are used to build up a model. A modified experimental setup is used for experimental study of stick-slip vibration which is used for characterizing friction with relative velocity. The experiments are conducted for different sets of parameters and it is found that the variation of friction force is linear with relative velocity.

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Analysis of Brain Region Segmentation Methods

Asha Bhagashra [1], Anil Balara [2], Dimple Saproo,[3] R K Vyas[4]

M.Tech Scholar, Department of Electronics & Communication, Shekhawati Engineering College, Dundlod, India [1]

Associate Professor, Department of Electronics & Communication, Dronacharya College of Engineering, Gurgaon, India[3]

Associate Professor, Department of Electronics & Communication, Shekhawati Engineering College, Dundlod, India [4]

ABSTRACT: Brain Region segmentation is a challenging problem in medical image analysis and the techniques are of major concern for researchers. The uncontrolled expansion of cells/tissues in the brain area forms the "brain tumor". Early recognition of these tumors is profoundly needed to give Treatment to patients. The patient's life chances are improved by its early recognition. The paper focuses on the preface to Brain Tumor, Convolutional Neural Networks (CNN), and few existing methods of Brain Tumor segmentation. In this paper, the difficulty and problems faced in the process of tumor segmentation be explained. The author discussed the prospects in this area using CNN, the bounding box method, and the support Vector Machine.

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Abstract

$Ge_1Se_{2.5}$ alloy was prepared using the melt quenching method and the film was deposited by the thermal evaporation method. The as-prepared film was irradiated with Nd:YAG laser at 532 nm wavelength for different durations. The structural and morphological characterization indicates that the film has nanoparticles of different shapes with sizes varying from 80 to 300 nm and the structure becomes more crystalline on laser irradiation. The refractive index of the film increases, while the band gap decreases on laser irradiation. The dispersion behaviour of refractive index was studied using the WDD model. The decrease in band gap is attributed to the increase of laser-induced defects, which consequently narrows the energy gap. The non-linear optical parameters

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Abstract

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The thrust to invent new materials and technology has been ever increasing due to technological challenges in progressive world. Among new materials, nanomaterials possess superior optical, electrical, magnetic, mechanical, and thermal properties, which have made them suitable for a multitude of applications. The present review paper deals with recent advances in properties of nanostructured glasses and composites in terms optical, electrical, mechanical and thermal properties. A brief discussion has been done on fabrication method of nanostructured glasses. The review of optical properties shows that nanostructured glasses show both direct and indirect band

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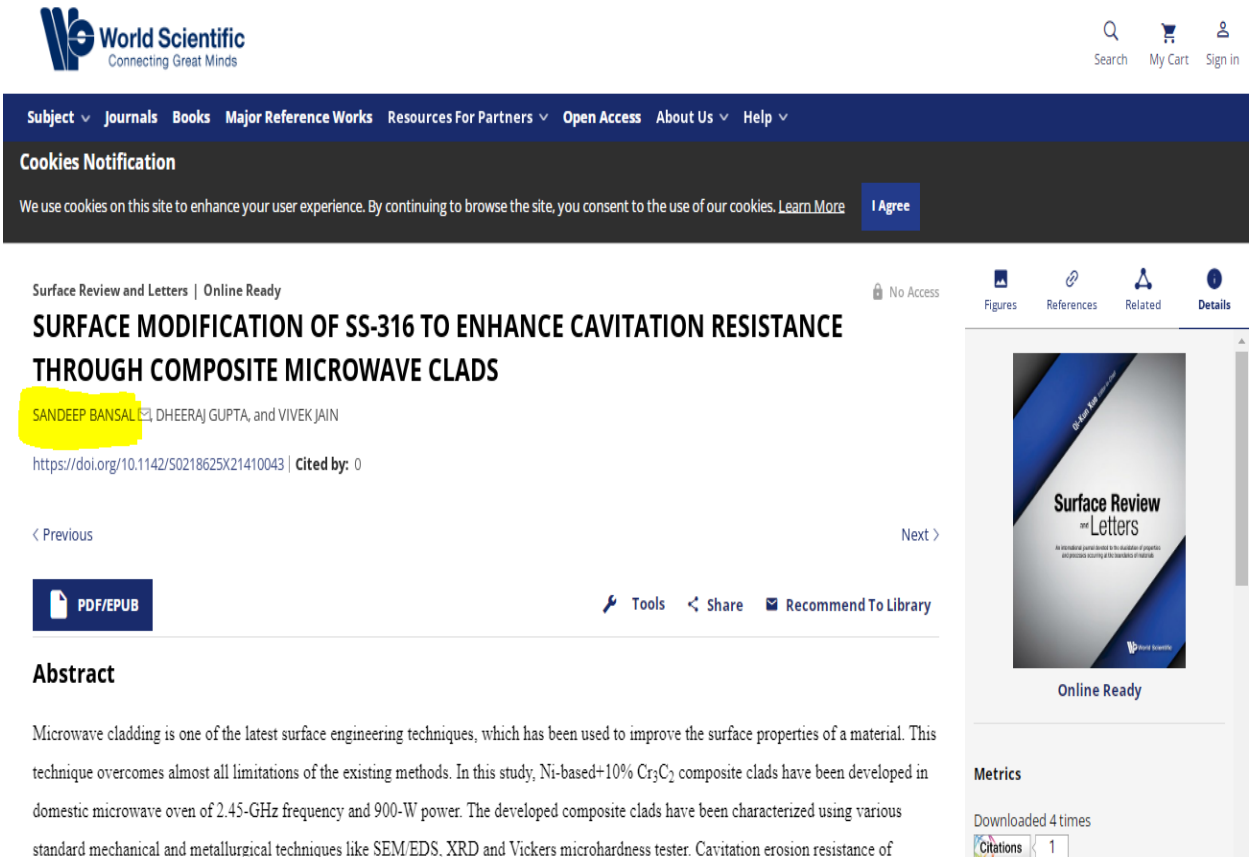

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Abstract

Microwave cladding is one of the latest surface engineering techniques, which has been used to improve the surface properties of a material. This technique overcomes almost all limitations of the existing methods. In this study, Ni-based+10% Cr_3C_2 composite clads have been developed in domestic microwave oven of 2.45-GHz frequency and 900-W power. The developed composite clads have been characterized using various standard mechanical and metallurgical techniques like SEM/EDS, XRD and Vickers microhardness tester. Cavitation erosion resistance of

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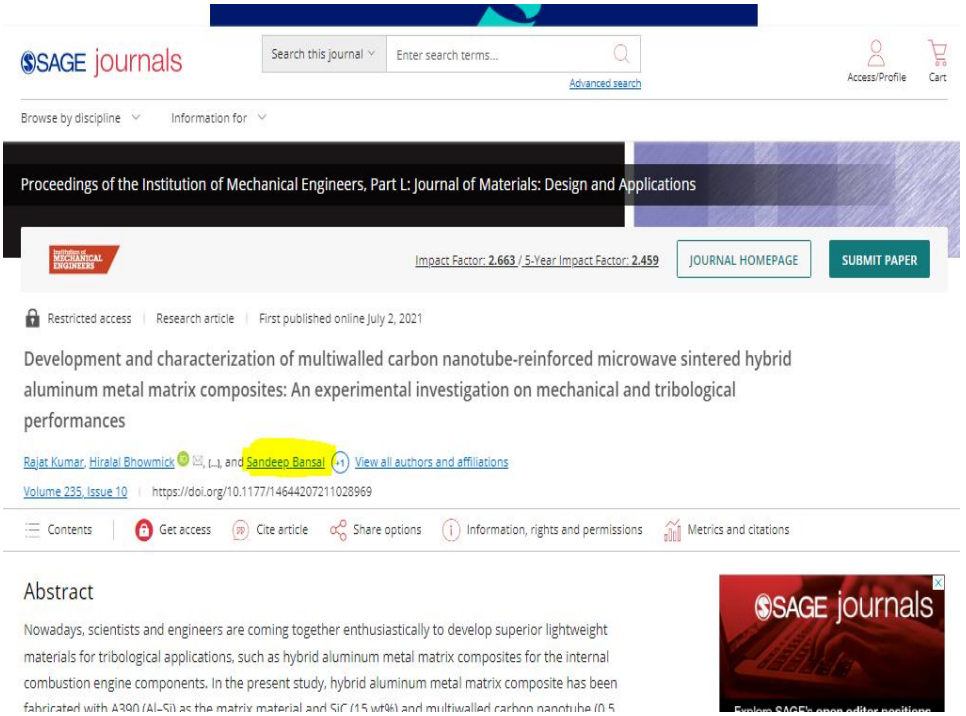

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Development and characterization of multiwalled carbon nanotube-reinforced microwave sintered hybrid aluminum metal matrix composites: An experimental investigation on mechanical and tribological performances

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Abstract

Nowadays, scientists and engineers are coming together enthusiastically to develop superior lightweight materials for tribological applications, such as hybrid aluminum metal matrix composites for the internal combustion engine components. In the present study, hybrid aluminum metal matrix composite has been fabricated with A390 (Al–Si) as the matrix material and SiC (15 wt%) and multiwalled carbon nanotube (0.5

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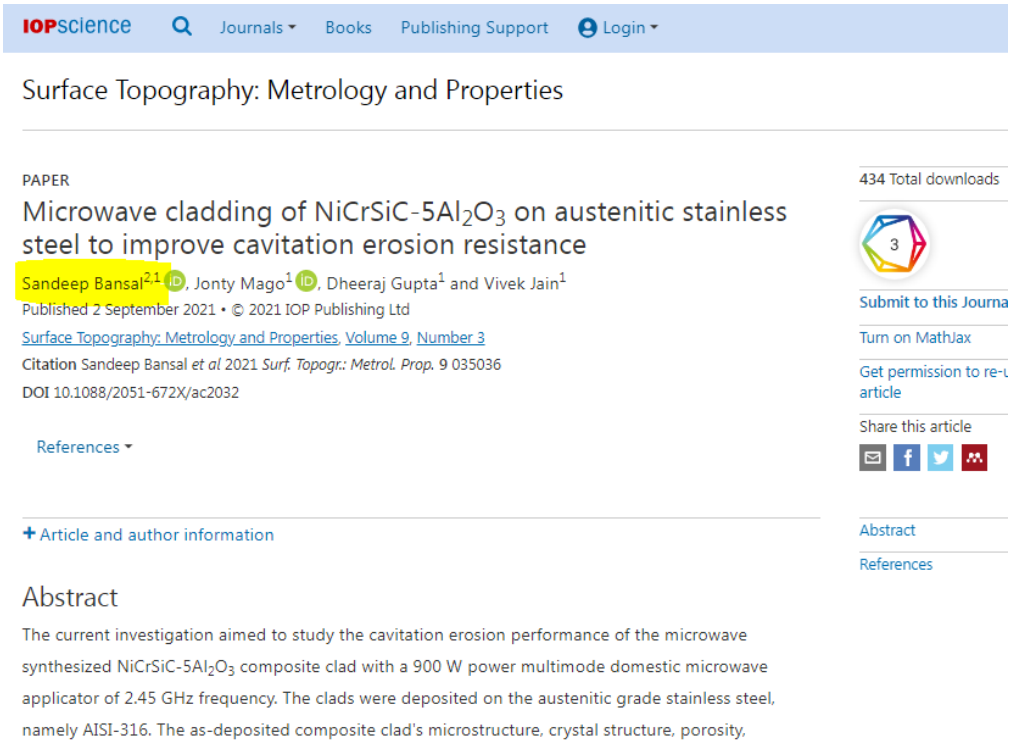

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Sandeep Bansal[2,1], Jonty Mago[1], Dheeraj Gupta[1] and Vivek Jain[1]

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Surface Topography: Metrology and Properties, Volume 9, Number 3

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The current investigation aimed to study the cavitation erosion performance of the microwave synthesized NiCrSiC-5Al_2O_3 composite clad with a 900 W power multimode domestic microwave applicator of 2.45 GHz frequency. The clads were deposited on the austenitic grade stainless steel, namely AISI-316. The as-deposited composite clad's microstructure, crystal structure, porosity,

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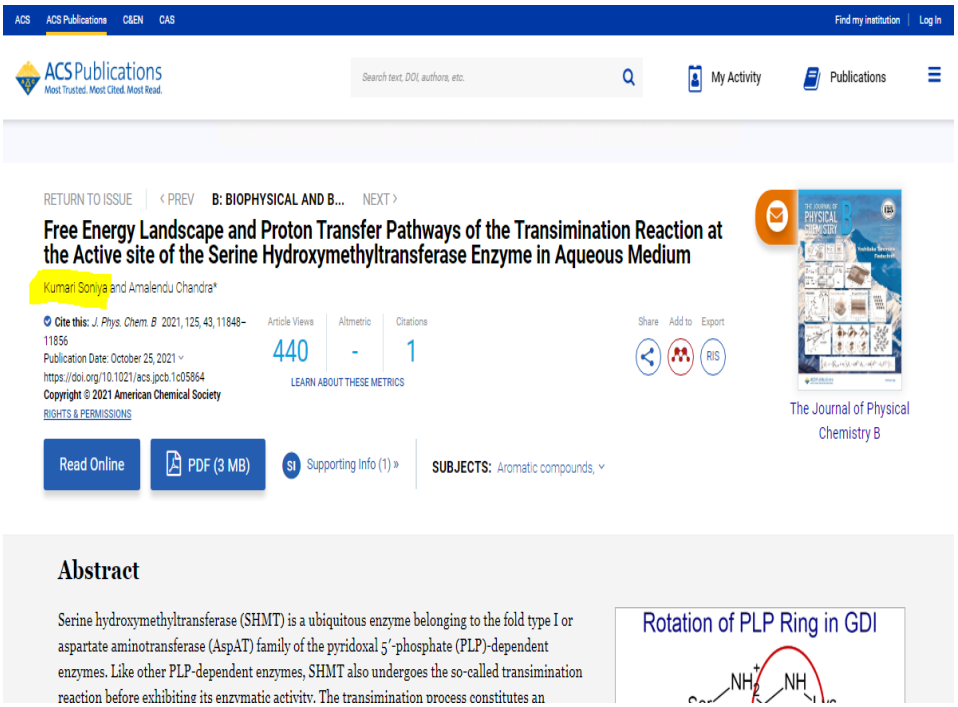

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Nanotechnology, Volume 33, Number 6

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Here, we report functionalized graphene quantum dots (GQDs) for the optical detection of arsenic at room temperature. GQDs with the fluorescence of three fundamental colors (red, green, and blue) were

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This work investigated the potentiality of calcium oxide supported on coal fly ash (CaO/CFA) as a solid catalyst for biodiesel synthesis from *Jatropha* oil (JO). Synthesized CaO/CFA catalyst at various precursor salt concentrations was investigated and exhibited good activity for transesterification reaction when the 40% wt/vol. concentration of precursor salt solution

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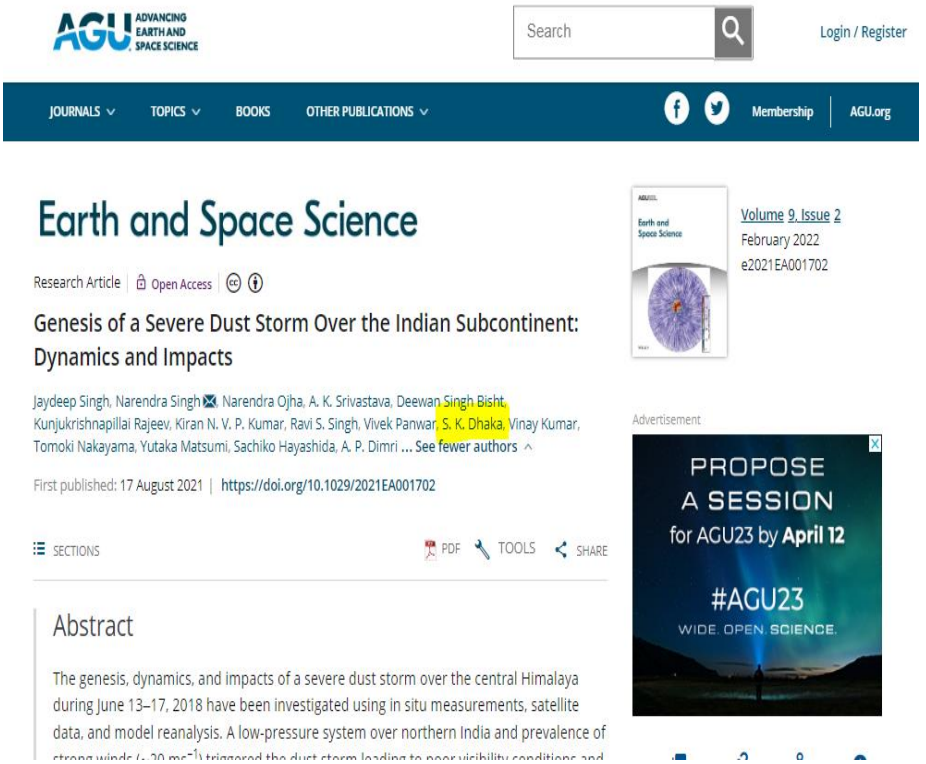

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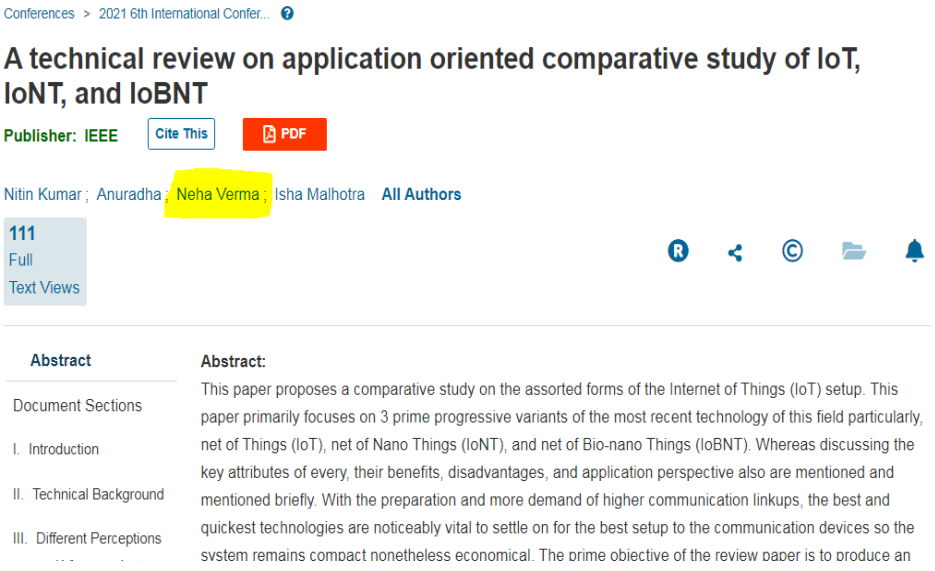

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Abstract:

This paper proposes a comparative study on the assorted forms of the Internet of Things (IoT) setup. This paper primarily focuses on 3 prime progressive variants of the most recent technology of this field particularly, net of Things (IoT), net of Nano Things (IoNT), and net of Bio-nano Things (IoBNT). Whereas discussing the key attributes of every, their benefits, disadvantages, and application perspective also are mentioned and mentioned briefly. With the preparation and more demand of higher communication linkups, the best and quickest technologies are noticeably vital to settle on for the best setup to the communication devices so the system remains compact nonetheless economical. The prime objective of the review paper is to produce an

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ABSTRACT

2.5 mm thick 6061-T6 aluminium alloy sheets with nanoparticles addition at abutting edges were joined using Friction Stir Welding (FSW). This study aims to investigate the effect of novel nanoparticles' addition strategy on the nanoparticle distribution for metallurgical and mechanical properties of weldments. The nanoparticle dispersion in different FSW zones were analysed using optical and SEM micrographs. The Vickers microhardness tests were conducted with more emphasis on the nugget zone (NZ). The outcomes were correlated with the grain size, nanoparticle dispersion, and their effect on metal-matrix. Results revealed that the surface appearances of welds with Al_2O_3 nanoparticles are smooth well forged compared to the TiO_2 weld that has rough surface

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Abstract

EN-31 Steel is widely used in today's industries due to its good strength and wear resistance in high-temperature conditions. Machining of EN-31 Steel is challenging due to its high strength and toughness. Under conventional machining methods, the turning process would be efficiently used for the economically machining of EN-31 Steel.

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Ahrari, Amirhossein; Ritesh Patro, Epari; Akbari, Mahdi; Klöve, Björn; Torabi Haghaighi, Ali

Lakes' water levels have a dynamic behavior, and their variations are an essential subject for water resources research and management. These variations have a wide range of time scales, from short-term (daily) to long-term (yearly) scales. However, access to hydrological data is limited due to scarce observation stations, fragmented data holdings, and low data quality in developing countries. Satellite altimeters are considered the main source of water level estimation among remote sensing data. Although many seas and oceans are covered by altimetry satellites, currently, they have a huge gap in covering inland lakes. Accordingly, we proposed an alternative approach to estimate shallow lakes' water levels using typical optical imageries and digital elevation models. The water level is estimated based on the Area Elevation Model (AEM) approach, using MODIS surface reflectance product, ALOS DSM and Landsat JRC product as inputs to the model. The AEM helps extract the water level time series based on the information about water area obtained from satellite products

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Title of the Paper: Soil Moisture Estimation using Remote Sensing Method

Name of the Author: Akancha Shekher

Name of the Journal: International Journal of Applied Engineering Research

International Journal of Applied Engineering Research ISSN 0973-4562 Volume 17, Number 1 (2022) pp. 51-53

Soil Moisture Estimation using Remote Sensing Method

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Abstract

Soil Moisture (SM) plays an important role in hydrological processes, which affects various earth and environmental science applications. Human society and the global environment are affected directly or indirectly by soil moisture. . Some of the application possibilities of SM includes monitoring and estimation of drought conditions; Predicting changes in climate and weather management and distribution of water resources; monitoring of climate change for ecosystem response agricultural plant production and alleviation of famine; natural calamities such as landslides, dust storms, wild fires, ,floods. This paper represents a brief review of estimation of soil moisture using remote sensing techniques

3. SOIL MOISTURE ESTIMATION

Following is a table of some of the satellites that are widely us ed to estimate soil moisture

Table 1 Satellite Sensor Development for Soil Moisture Estimation

SATELLITE	SENSOR	YEAR LAUNCHED	DATA TYPE
Land Sat	Land sat	1975	Passive
ESRI-1	SAR-C-band	1991	Active
JERS-1	SAR-L-band	1992	Active

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Title of the Paper: Analysing Front-End Engineering and its Libraries and Frameworks in Web

Name of the Author: Ashima Mehta

Name of the Journal: International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 6, June 2022
IJARSCT
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Analysing Front-End Engineering and its Libraries and Frameworks in Web

Aishwarya Tiwari[1] and Dr. Ashima Mehta[2]
Student, Department of Computer Science and Engineering[1]
Head, Department of Computer Science and Engineering[2]
Dronacharya College of Engineering, Gurgaon, Haryana, India
Maharishi Dayanand University, Gurgaon, Haryana, India

Abstract: *In this period of rapid development, technology and their patterns change on a daily basis and evolve on their own. The Web Consortium has taken the lead in the history of the internet with this evolution. The use of the web platform improves the engagement between the media and the public, and this participatory culture is the ideal method for cultural communication to develop in the future. The transition from a display-type online to an application-type web, as well as the larger contents of public cultural services, will undoubtedly lead to the growth of front-end engineering. Front-end development and libraries such as React, Vue, and Angular, to mention a few, have exploded in popularity as the internet has grown over the previous few decades. Front-end and its frameworks, such as React, Vue, and Angular, to name a few, have undoubtedly made their way into the field of online performance measurement services as the internet has grown over the previous several decades. The conclusions of the study are examined from many angles in this publication. This study will examine the benefits and drawbacks of each framework, and it will conclude with a summary, contributions, and a prediction about the future of front-end development.*

Keywords: Analysis, Consortium, front-end

I. INTRODUCTION

1.1 Preface

For high-performing and reliable mobile and web application development, modern technologies are required. The Internet is a worldwide network of interconnected computer networks that connect devices using the Internet protocol

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Name of the Author: Dr. Ekta Thakur

Name of the Journal: Wireless Personal Communications

Ultra-Wideband Compact Circularly Polarized Antenna

Ekta Thakur, Naveen Jaglan & Samir Dev Gupta

Wireless Personal Communications **123**, 407–420 (2022) | Cite this article

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Abstract

In this research work, a circularly polarized (CP) monopole antenna is designed for Ultra-Wideband (UWB) applications. The CP UWB antenna is be made up of a reformed ring patch and ground plane. The slots and stubs are inserted in the ground to achieve CP in the UWB antenna. This antenna attained an Axial Ratio Bandwidth (ARBW) of 5 GHz (4.0–9.0 GHz) that lies in the UWB frequency range that is from 3.1 to 10.6 GHz. The designed antenna has a radiation efficiency of around 80% for the complete UWB frequency range. The CP UWB

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Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Materials Research Innovations

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Research Article

Studies on superparamagnetic behaviour of Ni100-xCux alloy films deposited by DC magnetron sputtering

Mukesh Kumar, J. R. Ansari & M. T. Beig

Pages 351-356 | Received 29 Jun 2021, Accepted 25 Sep 2021, Published online: 02 Oct 2021

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ABSTRACT

In this study, nanocrystalline $Ni_{100-x}Cu_x$ alloy films have been synthesised using DC magnetron co-sputtering under argon gas atmosphere to analyse their superparamagnetic behaviour. The nanocrystalline nature and the grain size of the alloy films have been measured using grazing incidence x-ray diffraction (GIXRD) and a transmission electron microscopy (TEM). The M-H curves obtained using superconducting quantum interference device provides evidence for superparamagnetic behaviour of the nanocrystalline $Ni_{100-x}Cu_x$ alloy films. For the $Ni_{88}Cu_{11}$ alloy films, the highest value (456 emu/cm^3) of saturation magnetisation has been measured. Zero field cooling (ZFC) and field cooling (FC) data obtained from superconducting quantum interference

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Silver nanoparticles decorated two dimensional MoS_2 nanosheets for enhanced photocatalytic activity

Jamilur R. Ansari [a], Neelam Singh [a], Shadab Anwar [b], Satyabrata Mohapatra [a], Anindya Datta [a]

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Highlights

- Ag/USAg-MoS_2 hybrid structures were prepared by liquid exfoliation method.

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Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Nanoscience and Technology: An International Journal

STUDIES ON THE HEATING ABILITY BY VARYING THE SIZE OF Fe_3O_4 MAGNETIC NANOPARTICLES FOR HYPERTHERMIA

Volume 13, Issue 3, 2022, pp. 33-45
DOI: 10.1615/NanoSciTechnolIntJ.2022040075

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ABSTRACT

Magnetic hyperthermia is an application in cancer treatment wherein heat is produced by the magnetization and demagnetization of magnetic nanoparticles inside the cancerous cell or tumor cell with the help of external alternating magnetic field. Fe_3O_4 magnetic nanoparticles are synthesized by co-precipitation of ferrous and ferric salts under inert atmosphere using nitrogen gas. The size of the Fe_3O_4particles are in the range of 10-30 nm, as measured by X-ray diffraction. Further for microstructural analysis, transmission electron microscopy used to measure the heating effect of Fe_3O_4 nanoparticles, which were kept inside the Helmholtz coil when the

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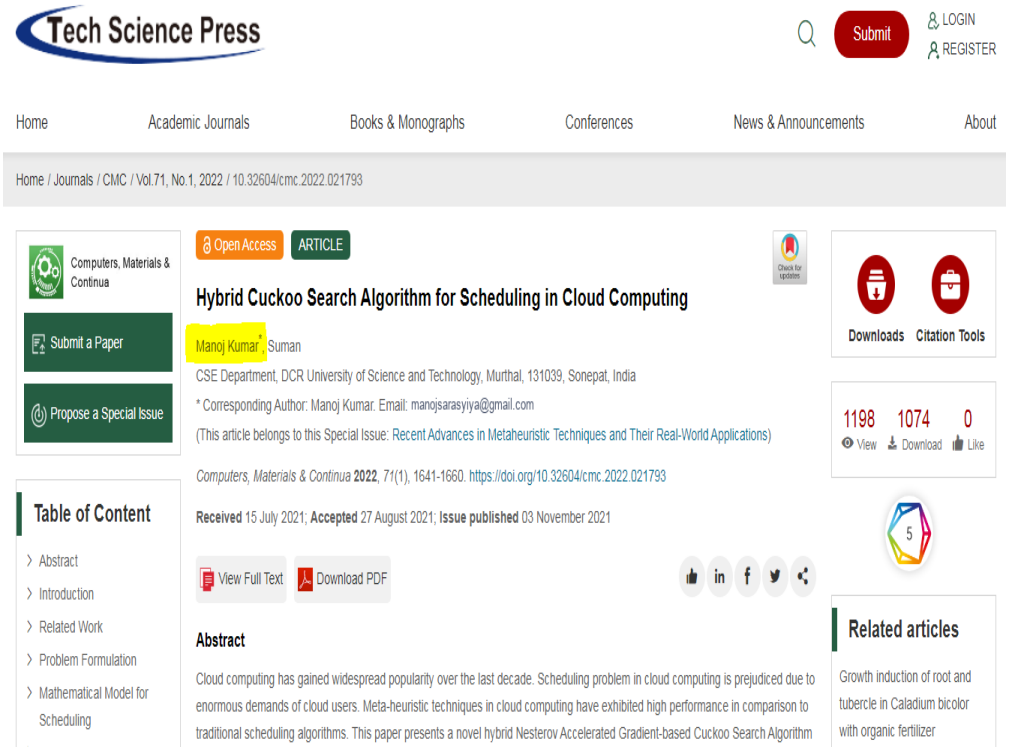

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Hybrid Cuckoo Search Algorithm for Scheduling in Cloud Computing

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CSE Department, DCR University of Science and Technology, Murthal, 131039, Sonepat, India

* Corresponding Author: Manoj Kumar. Email: manojsarasyiya@gmail.com

(This article belongs to this Special Issue: Recent Advances in Metaheuristic Techniques and Their Real-World Applications)

Computers, Materials & Continua **2022**, *71*(1), 1641-1660. https://doi.org/10.32604/cmc.2022.021793

Received 15 July 2021; **Accepted** 27 August 2021; **Issue published** 03 November 2021

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Abstract

Cloud computing has gained widespread popularity over the last decade. Scheduling problem in cloud computing is prejudiced due to enormous demands of cloud users. Meta-heuristic techniques in cloud computing have exhibited high performance in comparison to traditional scheduling algorithms. This paper presents a novel hybrid Nesterov Accelerated Gradient-based Cuckoo Search Algorithm

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Scheduling in IaaS Cloud Computing Environment using Sailfish Optimization Algorithm

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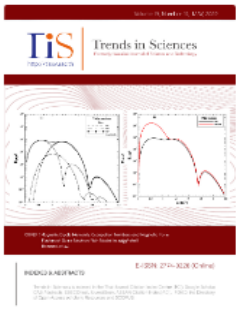

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ABSTRACT

Due to the exceptional benefits of cloud computing, it has magnetized IT leaders and entrepreneurs at all levels. The cloud's popularity is attributed to various technologies like the Internet of Things (IoT), mobile computing, Fog, etc. Scheduling in cloud computing is still a challenging issue due to its NP-Hard nature. In recent years, many techniques have been proposed for optimal scheduling that can subsequently improve efficient Quality of

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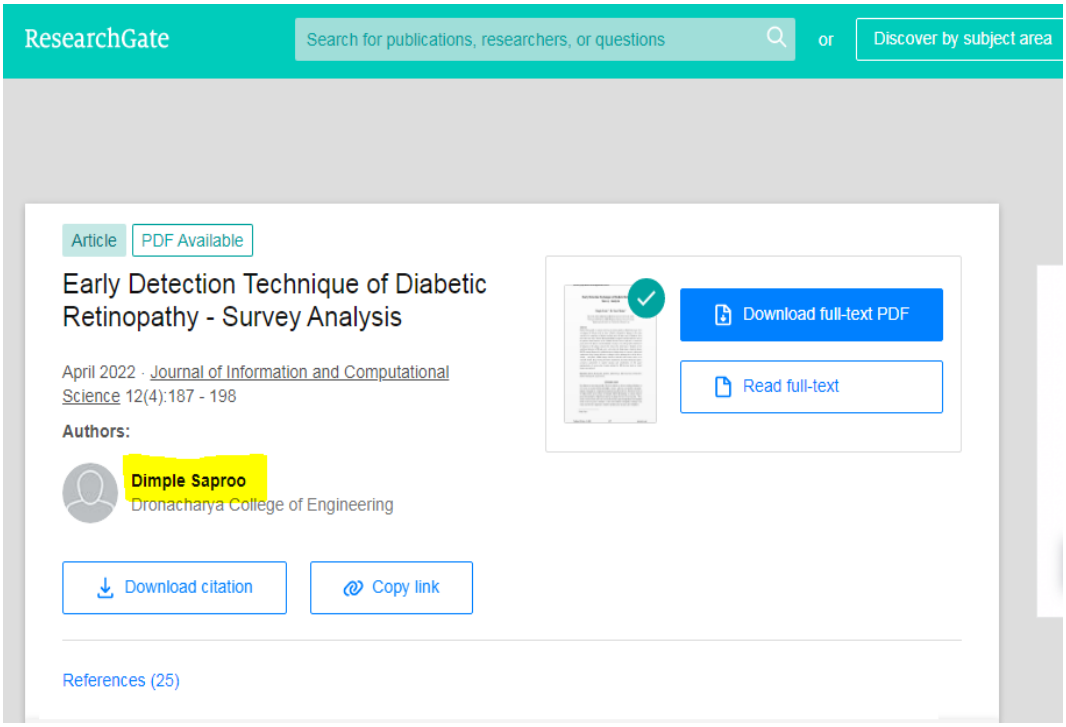

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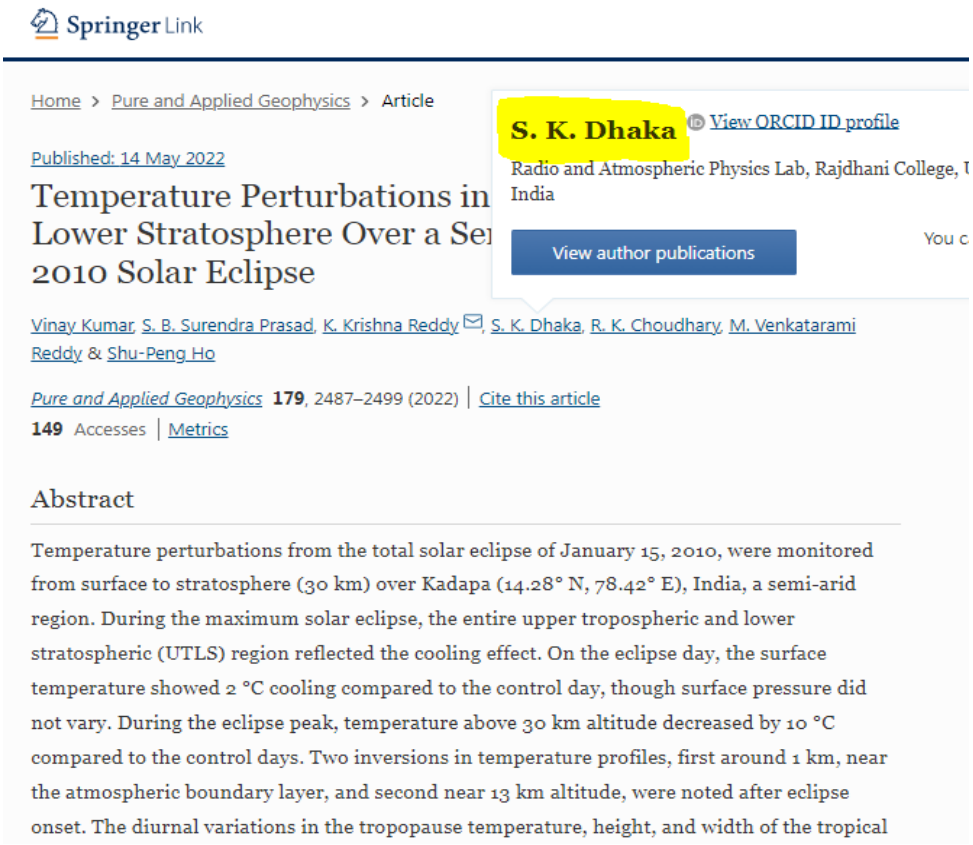

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Abstract

Temperature perturbations from the total solar eclipse of January 15, 2010, were monitored from surface to stratosphere (30 km) over Kadapa (14.28° N, 78.42° E), India, a semi-arid region. During the maximum solar eclipse, the entire upper tropospheric and lower stratospheric (UTLS) region reflected the cooling effect. On the eclipse day, the surface temperature showed 2 °C cooling compared to the control day, though surface pressure did not vary. During the eclipse peak, temperature above 30 km altitude decreased by 10 °C compared to the control days. Two inversions in temperature profiles, first around 1 km, near the atmospheric boundary layer, and second near 13 km altitude, were noted after eclipse onset. The diurnal variations in the tropopause temperature, height, and width of the tropical

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Abstract

This paper presents a detailed review and discussion on the long-range forecast (LRF) of Indian summer monsoon rainfall (ISMR), its present status, problems, and perspectives with an emphasis on the Indian meteorological department (IMD) operational forecasting methods and its forecasts. Verifications of IMD LRF for 1924-1987 revealed a success rate of nearly 64%. IMD operational LRF skills (correlation coefficient) during the period 1988-2020 were found as 0.25 and 0.34 for the 1st -stage (April) and 2nd -stage (June), respectively. From 1988 to 2020 (33-years), 21-years of predictions were predicted out of the confidence band (±4%LRF). Out of these 21-years, 18-years were individual or co-occurring El Niño-Southern Oscillation (ENSO) and Indian Ocean Dipole (IOD) event years. It indicates that IMD operational models have failed to capture ENSO and IOD phenomenon effects in their

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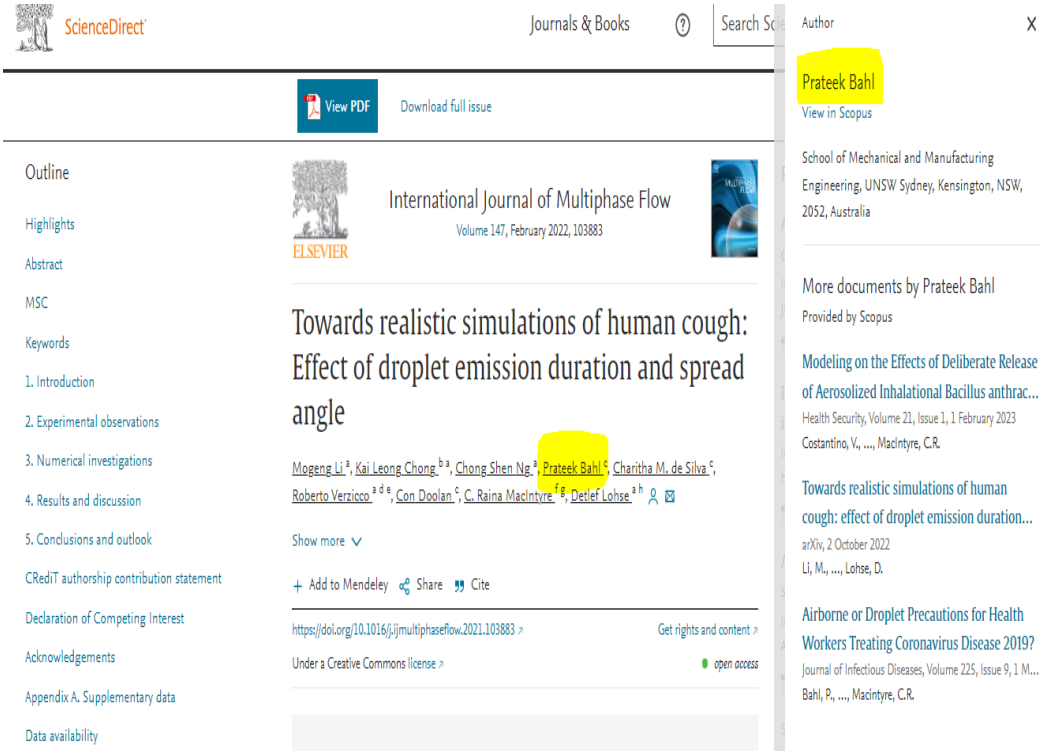

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Towards realistic simulations of human cough: Effect of droplet emission duration and spread angle

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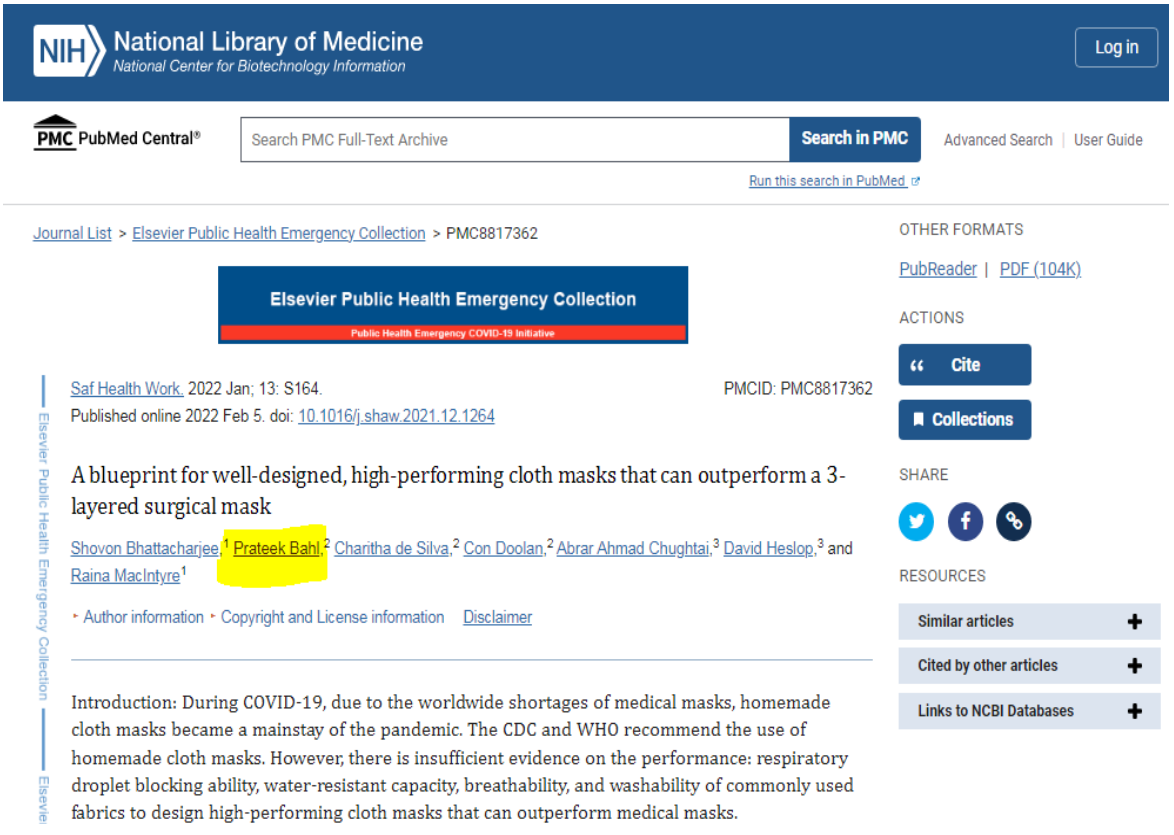

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Saf Health Work. 2022 Jan; 13: S164. PMCID: PMC8817362
Published online 2022 Feb 5. doi: 10.1016/j.shaw.2021.12.1264

A blueprint for well-designed, high-performing cloth masks that can outperform a 3-layered surgical mask

Shovon Bhattacharjee,[1] Prateek Bahl,[2] Charitha de Silva,[2] Con Doolan,[2] Abrar Ahmad Chughtai,[3] David Heslop,[3] and Raina MacIntyre[1]

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Introduction: During COVID-19, due to the worldwide shortages of medical masks, homemade cloth masks became a mainstay of the pandemic. The CDC and WHO recommend the use of homemade cloth masks. However, there is insufficient evidence on the performance: respiratory droplet blocking ability, water-resistant capacity, breathability, and washability of commonly used fabrics to design high-performing cloth masks that can outperform medical masks.

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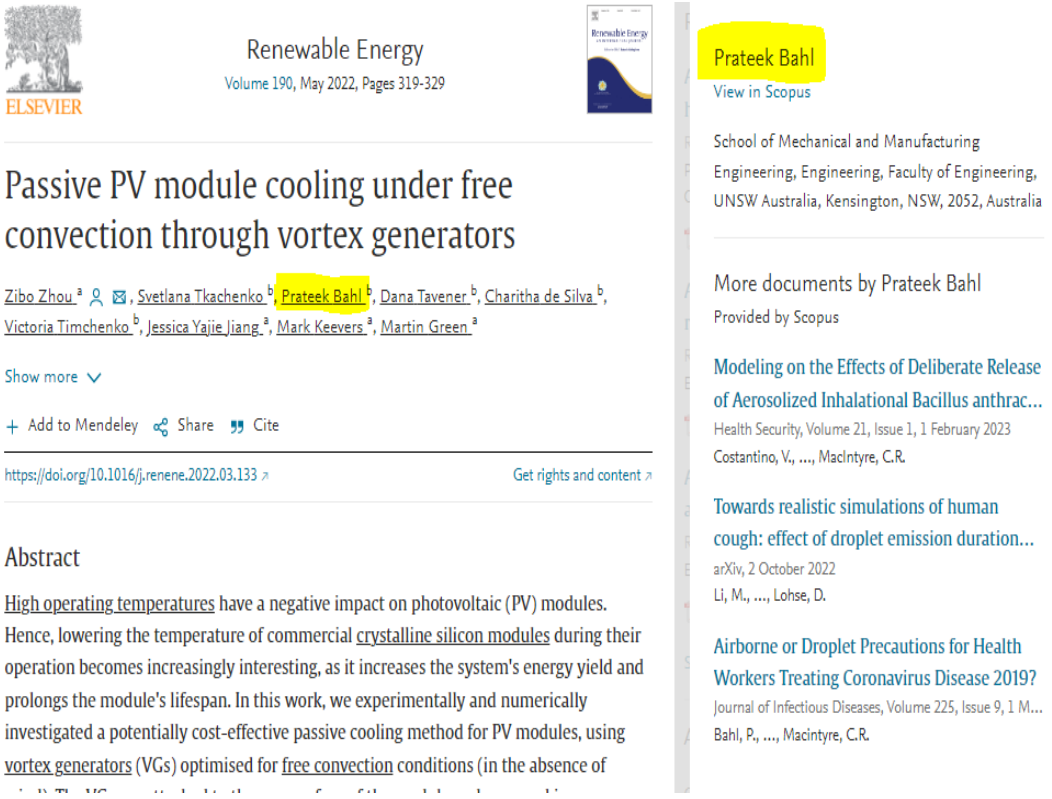

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Volume 190, May 2022, Pages 319-329

Passive PV module cooling under free convection through vortex generators

Zibo Zhou [a], Svetlana Tkachenko [b], Prateek Bahl [b], Dana Tavener [b], Charitha de Silva [b], Victoria Timchenko [b], Jessica Yajie Jiang [a], Mark Keevers [a], Martin Green [a]

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Abstract

High operating temperatures have a negative impact on photovoltaic (PV) modules. Hence, lowering the temperature of commercial crystalline silicon modules during their operation becomes increasingly interesting, as it increases the system's energy yield and prolongs the module's lifespan. In this work, we experimentally and numerically investigated a potentially cost-effective passive cooling method for PV modules, using vortex generators (VGs) optimised for free convection conditions (in the absence of

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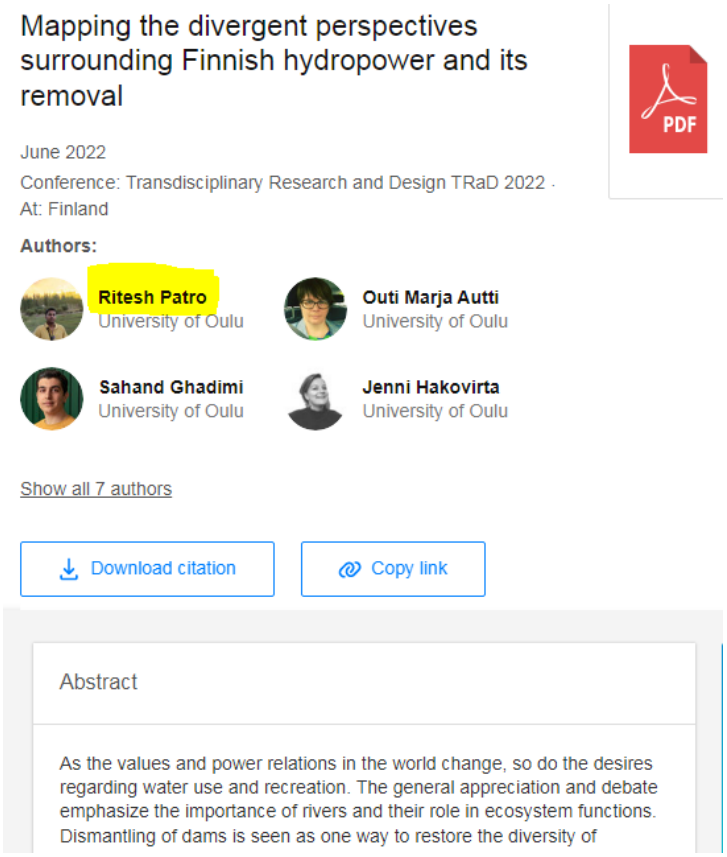

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Abstract

As the values and power relations in the world change, so do the desires regarding water use and recreation. The general appreciation and debate emphasize the importance of rivers and their role in ecosystem functions. Dismantling of dams is seen as one way to restore the diversity of

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ISBN No: 978-81-924893-7-7 10th International Conference on Advancements in Engineering and Technology (ICAET-2022)

Methodology for designing and fabricating a novel SEABIN used in the marine industries

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ABSTRACT

One of the most significant issues facing our world right now is the extreme pollution of our seas and waterways. Every lubricants and detergents from the surface water. Because they are less expensive to run, involve less labor, and are a more natural manner of cleaning, sea bins are preferable to

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Reduced Graphene Oxide and Nanoparticles Incorporated Durable Electroconductive Silk Fabrics

Shovon Bhattacharjee, Chandini Raina Macintyre, Prateek Bahl, Uttam Kumar, Xinyue Wen, Kondo-Francois Aguey-Zinsou, Abrar Ahmad Chughtai, Rakesh Joshi

First published: 26 August 2020 | https://doi.org/10.1002/admi.202000814 | Citations: 9

Abstract

Graphene derivatives have the capability of forming chemical bonding with fabrics and show the potential to be used in smart textiles. However, the challenge is to fabricate highly conductive multifunctional fabric with good washing durability. Herein, reduced graphene oxide (RGO) and silver (Ag)/copper (Cu) nanoparticles (NPs)-coated durable electroconductive silk fabric is fabricated by facile dip and dry method using 3-glycidyloxypropyl trimethoxy silane as coupling agent (CA). Results show that RGO and NPs-coated fabrics not only demonstrate low surface resistance but also excellent

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Dronacharya College of Engineering
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Title of the Paper: Nanoparticles incorporated graphene-based durable cotton fabrics

Name of the Author: Prateek Bahl

Name of the Journal: Carbon

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Outline

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Graphical abstract
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2. Experimental
3. Results and discussion
4. Conclusion
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Declaration of competing interest
Acknowledgment
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Carbon
Volume 166, 30 September 2020, Pages 148-163

Nanoparticles incorporated graphene-based durable cotton fabrics

Shovon Bhattacharjee [a b], Chandini Raina Macintyre [a c], Xinyue Wen [d], Prateek Bahl [e], Uttam Kumar [d], Abrar Ahmad Chughtai [f], Rakesh Joshi [d]

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Abstract

Graphene coated fabrics with incorporated nanoparticles can be smart textiles for multiple applications. The presence of an ample amount of oxygen-bearing functional

Author X

Prateek Bahl
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School of Mechanical & Manufacturing Engineering, University of New South Wales, Sydney, NSW, 2052, Australia

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Towards realistic simulations of human cough: effect of droplet emission duration...
arXiv, 2 October 2022
Li, M., ..., Lohse, D.

Airborne or Droplet Precautions for Health Workers Treating Coronavirus Disease 2019?
Journal of Infectious Diseases, Volume 225, Issue 9, 1 M...
Bahl, P., ..., Macintyre, C.R.

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the Paper: An experimental framework to capture the flow dynamics of droplets expelled by a sneeze

Name of the Author: Prateek Bahl

Name of the Journal: Experiments in Fluids

Research Article | Published: 18 July 2020

An experimental framework to capture the flow dynamics of droplets expelled by a sneeze

Prateek Bahl, Charitha M. de Silva, Abrar Ahmad Chughtai, C. Raina MacIntyre & Con Doolan

Experiments in Fluids **61**, Article number: 176 (2020) | Cite this article

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Abstract

Respiratory activities such as sneezing generate pathogen laden droplets that can deposit in the respiratory tract of a susceptible host to initiate infection. The extent of spread of these droplets determines the safe distance between a patient and health care worker. Here, we have presented a method to visualize the droplets expelled by a sneeze using light-sheet illumination. This method of visualization provides images that clearly resolve the velocities of droplets with minimal overlapping trajectories, towards understanding their flow dynamics. Furthermore, we present the image processing techniques required to perform accurate Particle Tracking Velocimetry to understand the motion of expelled droplets. Flow fields are presented from applying this methodology over multiple sneezes which reveal that less than 1% of droplets expelled travel at velocities greater than 10 m/s and almost 80% of droplets travel at velocities less than 5 m/s. Furthermore, we observe that some droplets are generated

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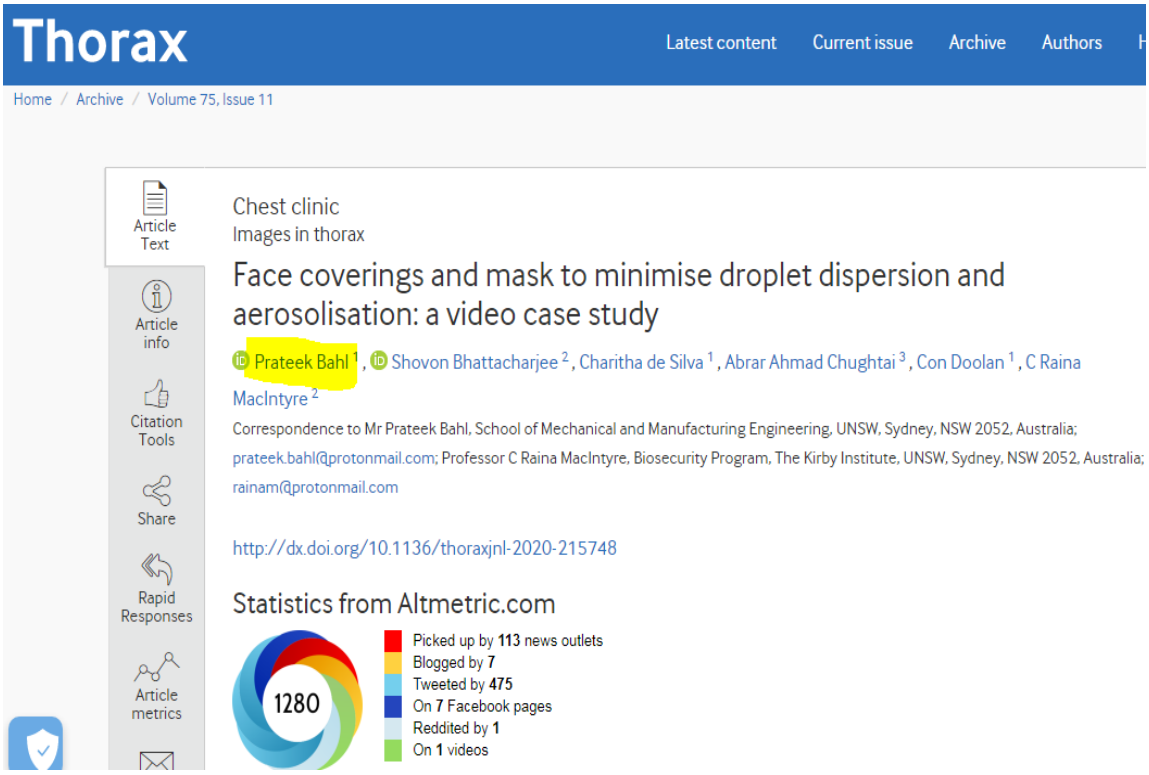
Title of the Paper: Face coverings and mask to minimize droplet dispersion and aerosolisation: a video case study

Name of the Author: Prateek Bahl

Name of the Journal: Thorax



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Face coverings and mask to minimise droplet dispersion and aerosolisation: a video case study

Prateek Bahl [1], Shovon Bhattacharjee [2], Charitha de Silva [1], Abrar Ahmad Chughtai [3], Con Doolan [1], C Raina MacIntyre [2]

Correspondence to Mr Prateek Bahl, School of Mechanical and Manufacturing Engineering, UNSW, Sydney, NSW 2052, Australia; prateek.bahl@protonmail.com; Professor C Raina MacIntyre, Biosecurity Program, The Kirby Institute, UNSW, Sydney, NSW 2052, Australia; rainam@protonmail.com

http://dx.doi.org/10.1136/thoraxjnl-2020-215748

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Principal
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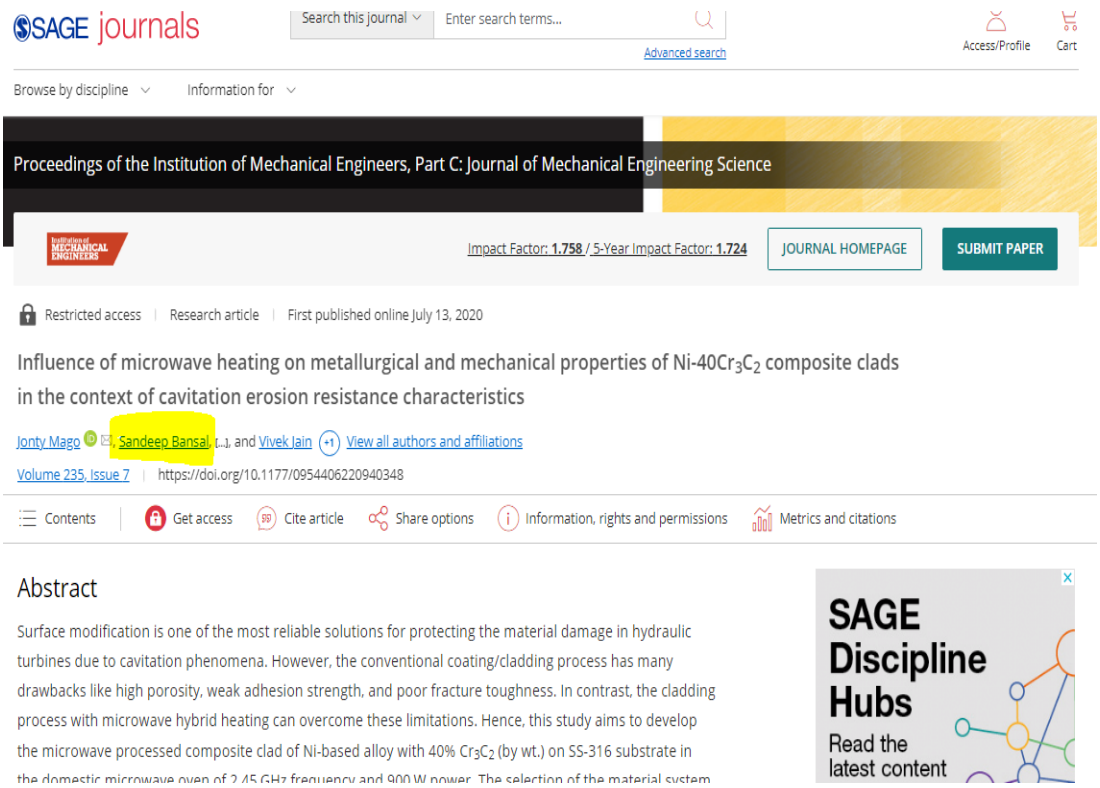
Farrukh Nagar, Gurgaon.

Title of the Paper: Influence of microwave heating on metallurgical and mechanical properties of Ni-40Cr3C2 composite clads in the context of cavitation erosion resistance characteristics

Name of the Author: Sandeep Bansal

Name of the Journal: Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science



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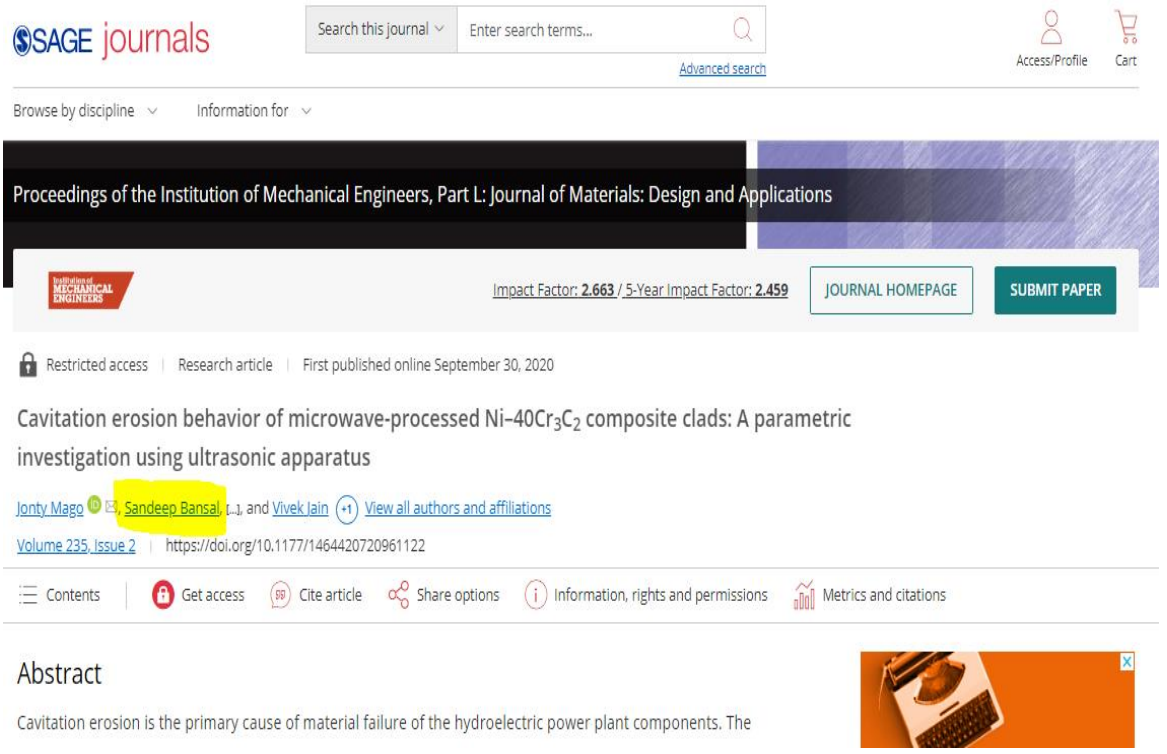
Farrukh Nagar, Gurgaon.

Title of the Paper: Cavitation erosion behavior of microwave-processed Ni–40Cr3C2 composite clads: A parametric investigation using ultrasonic apparatus

Name of the Author: Sandeep Bansal

Name of the Journal: Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications



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Title of the Paper: Synthesis and magnetic properties of stable cobalt nanoparticles decorated reduced graphene oxide sheets in the aqueous medium

Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Journal of Materials Science: Materials in Electronics

Springer Link

Home > Journal of Materials Science: Materials in Electronics > Article

Published: 03 August 2020

Synthesis and magnetic properties of stable cobalt nanoparticles decorated reduced graphene oxide sheets in the aqueous medium

Neelam Singh, J. R. Ansari, Mrinal Pal, Nguyen T. K. Thanh, Tung Le & Anindya Datta

Journal of Materials Science: Materials in Electronics **31**, 15108–15117 (2020) | Cite this article

374 Accesses | **6** Citations | **1** Altmetric | Metrics

Abstract

We have synthesized cobalt nanoparticles-reduced graphene oxide (Co-RGO) nanocomposites The Co NPs achieve shape variation in different nanocomposites due to the strategic use of variety in the preparation techniques. The transmission electron microscope image of composites confirms the decoration of different shapes of Co NPs on RGO sheets. The magnetic study with the variation of temperature indicates a change in the form of hysteresis loops. This is due to the transition from ferromagnetic to superparamagnetic behavior. We found that cubic-shaped Co NPs while decorating RGO show the highest values for some

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Title of the Paper: Amitav Ghosh: Crafting on Contemporary Literature

Name of the Author: Anchal Bhutani

Name of the Journal: Contemporary Literary Review India

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Amitav Ghosh - Crafting on Contemporary Literature

Anchal Bhutani

DOI: https://doi.org/10.201411/clri.v7i4.710

Keywords: Indian English literature, Indian writers, India English fiction, English literary fiction, contemporary literature

Abstract

Amitav Ghosh is a writer who never followed a particular genre to create a literary exception. Perhaps that is why his work is unique, and he is an author who always takes the readers to the history and then takes to his imaginary world. He has proficiency in weaving history with imagination, and that is how he gives birth to fiction. His writing language uses ornamental English with the higher literature value. On the other hand,

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Title of the Paper: Reliability Analysis of a Redundant System with 'FCFS' Repair Policy Subject to Weather Conditions

Name of the Author: Dr. Ashok Kumar

Name of the Journal: International Journal of Advanced Science and Technology

International Journal of Advanced Science and Technology

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Reliability Analysis of a Redundant System with 'FCFS' Repair Policy Subject to Weather Conditions

Ashok Kumar, D. Pawar, S. C. Malik

PDF

Abstract

In this paper reliability model of a redundant system of two non-identical units is developed that operates in normal/abnormal weather conditions. Single server is available with the system to perform repair activities in normal weather on first come first serve basis and no repair is carried out in abnormal weather. Initially, main unit is operative in normal mode and other non-identical unit is in warm standby mode. The main unit fails from normal operative mode while the other unit fails from warm standby/ operative mode. Failure rate of the units follows negative exponential distribution whereas the distributions of repair times are arbitrary. The

How to Cite

Ashok Kumar, D. Pawar, S. C. Malik. (2020). Reliability Analysis of a Redundant System with 'FCFS' Repair Policy Subject to Weather Conditions. *International Journal of Advanced Science and Technology*, *29*(3), 7568 - 7578. Retrieved from http://sersc.org/journals/index.php/IJAST/article/view/7995

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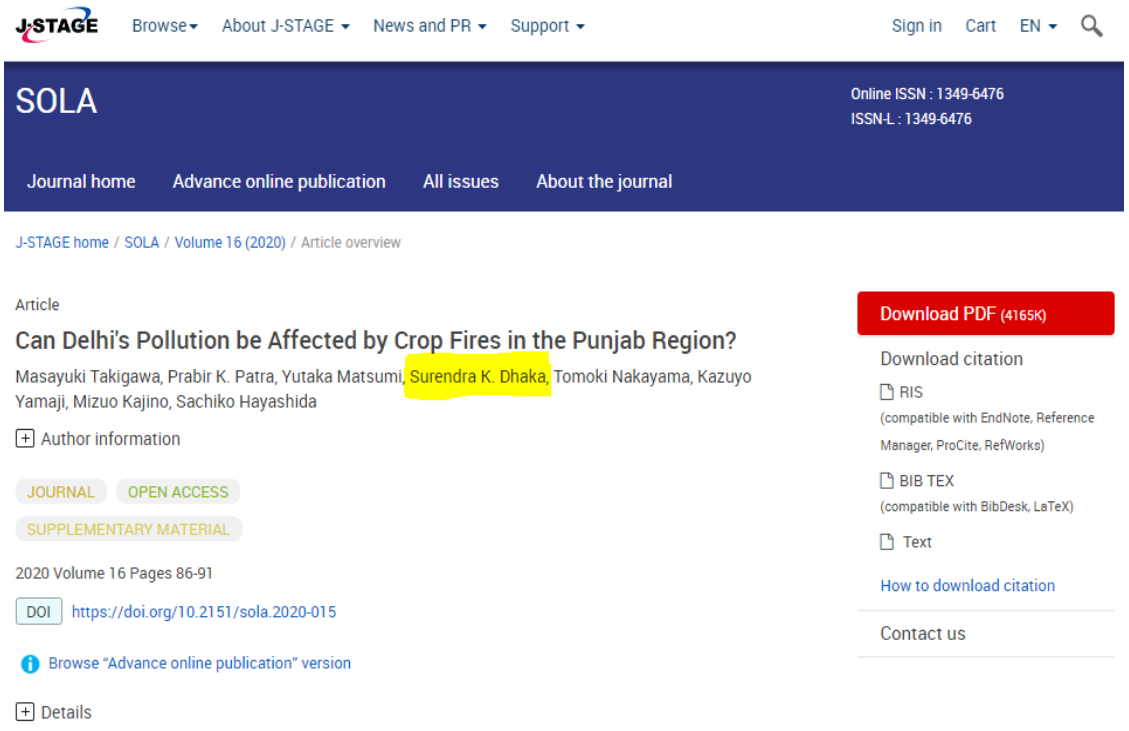
Title of the Paper: Can Delhi's Pollution is affected by Crop Fires in the Punjab Region?

Name of the Author: Surender Dhaka

Name of the Journal: Scientific online letters on the Atmosphere: SOLA



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Article

Can Delhi's Pollution be Affected by Crop Fires in the Punjab Region?

Masayuki Takigawa, Prabir K. Patra, Yutaka Matsumi, Surendra K. Dhaka, Tomoki Nakayama, Kazuyo Yamaji, Mizuo Kajino, Sachiko Hayashida

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Title of the Paper: Market Models and Operating Mechanism for Renewable Energy Enabled Indian Electricity Market

Name of the Author: Dr. JYOTHI VARANASI

Name of the Journal: Smart Grids and Sustainable Energy

Springer Link

Home > Technology and Economics of Smart Grids and Sustainable Energy > Article

Original Paper | Published: 05 December 2020

Market Models and Operating Mechanism for Renewable Energy Enabled Indian Electricity Market

Jyothi Varanasi & Madan Mohan Tripathi

Technology and Economics of Smart Grids and Sustainable Energy **5**, Article number: 23 (2020) | Cite this article

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Abstract

The restructuring process of the electricity industry has driven the competitive environment to such an extent that a reliable supply of good quality and clean energy at a reasonable price as per the demand of the consumer has become a reality. However, such constraints lead to a very complex system with large scale integration of renewable energy (RE) generation throughout the grid in a distributed manner. This situation leads to search for new market models and improved operating mechanisms to run the electricity market. The aim of the work is to propose several market models and an improved operating mechanism for reliable operation of the RE enabled electricity market in India. The above said market models are

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Title of the Paper: PM2.5 diminution and haze events over Delhi during the COVID-19 lockdown period: Interplay between the baseline pollution and meteorology

Name of the Author: Surender Dhaka

Name of the Journal: Scientific Reports

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Article | Open Access | Published: 10 August 2020

$PM_{2.5}$ diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology

Surendra K. Dhaka, Chetna, Vinay Kumar, Vivek Panwar, A. P. Dimri, Narendra Singh, Prabir K. Patra, Yutaka Matsumi, Masayuki Takigawa, Tomoki Nakayama, Kazuyo Yamaji, Mizuo Kajino, Prakhar Misra & Sachiko Hayashida

Scientific Reports **10**, Article number: 13442 (2020) | Cite this article

8044 Accesses | **58** Citations | **21** Altmetric | Metrics

Abstract

Delhi, a tropical Indian megacity, experiences one of the most severe air pollution in the world,

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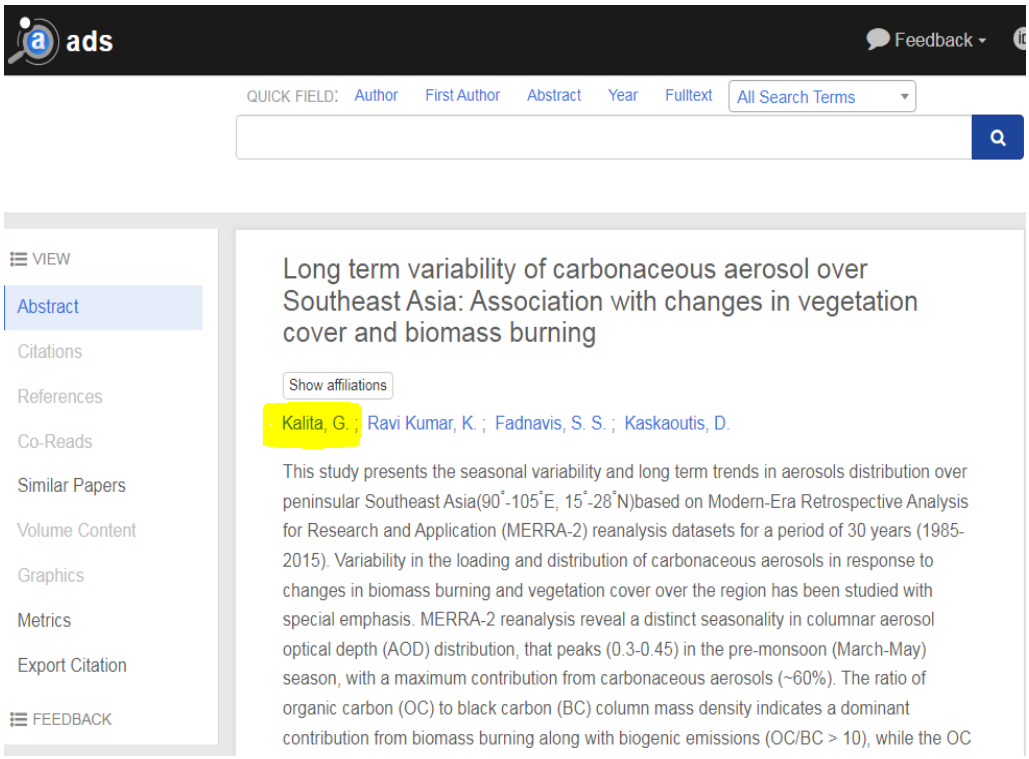
Title of the Paper: Long term variability of carbonaceous aerosol over Southeast Asia: Association with changes in vegetation cover and biomass burning

Name of the Author: Gayatry Kalita

Name of the Journal: American Geophysical Union, Fall Meeting 2020



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Title of the Paper: Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning

Name of the Author: Gayatry Kalita

Name of the Journal: Atmospheric Research

Outline

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Atmospheric Research
Volume 245, 15 November 2020, 105064

Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning

Gayatry Kalita [a], Ravi Kumar Kunchala [b], Suvarna Fadnavis [a], Dimitris G. Kaskaoutis [c]

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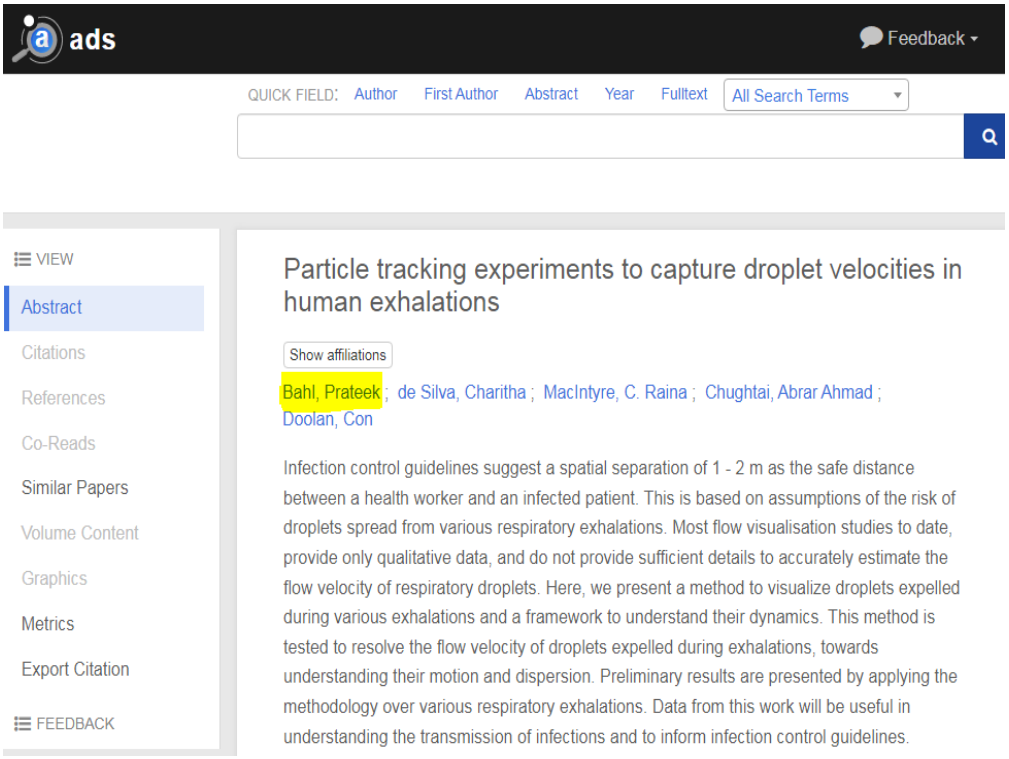
Title of the Paper: Particle tracking experiments to capture droplet velocities in human exhalations

Name of the Author: Prateek Bahl

Name of the Journal: APS Division of Fluid Dynamics (fall) 2020



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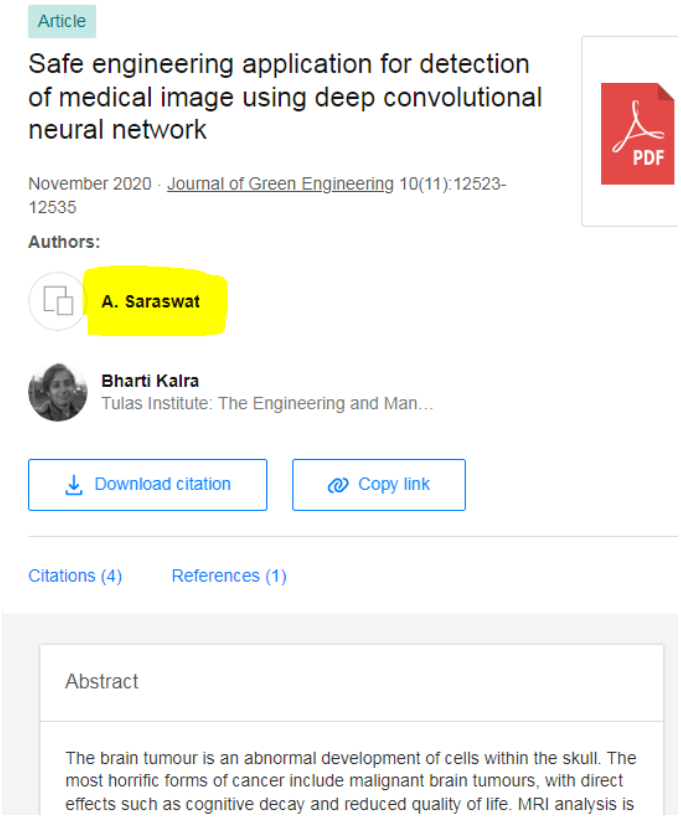
Title of the Paper: Safe Engineering Application for Detection of Medical Image Using Deep Convolutional Neural Network

Name of the Author: Amar Saraswat

Name of the Journal: Journal of Green Engineering



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Safe engineering application for detection of medical image using deep convolutional neural network

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Authors:

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Abstract

The brain tumour is an abnormal development of cells within the skull. The most horrific forms of cancer include malignant brain tumours, with direct effects such as cognitive decay and reduced quality of life. MRI analysis is

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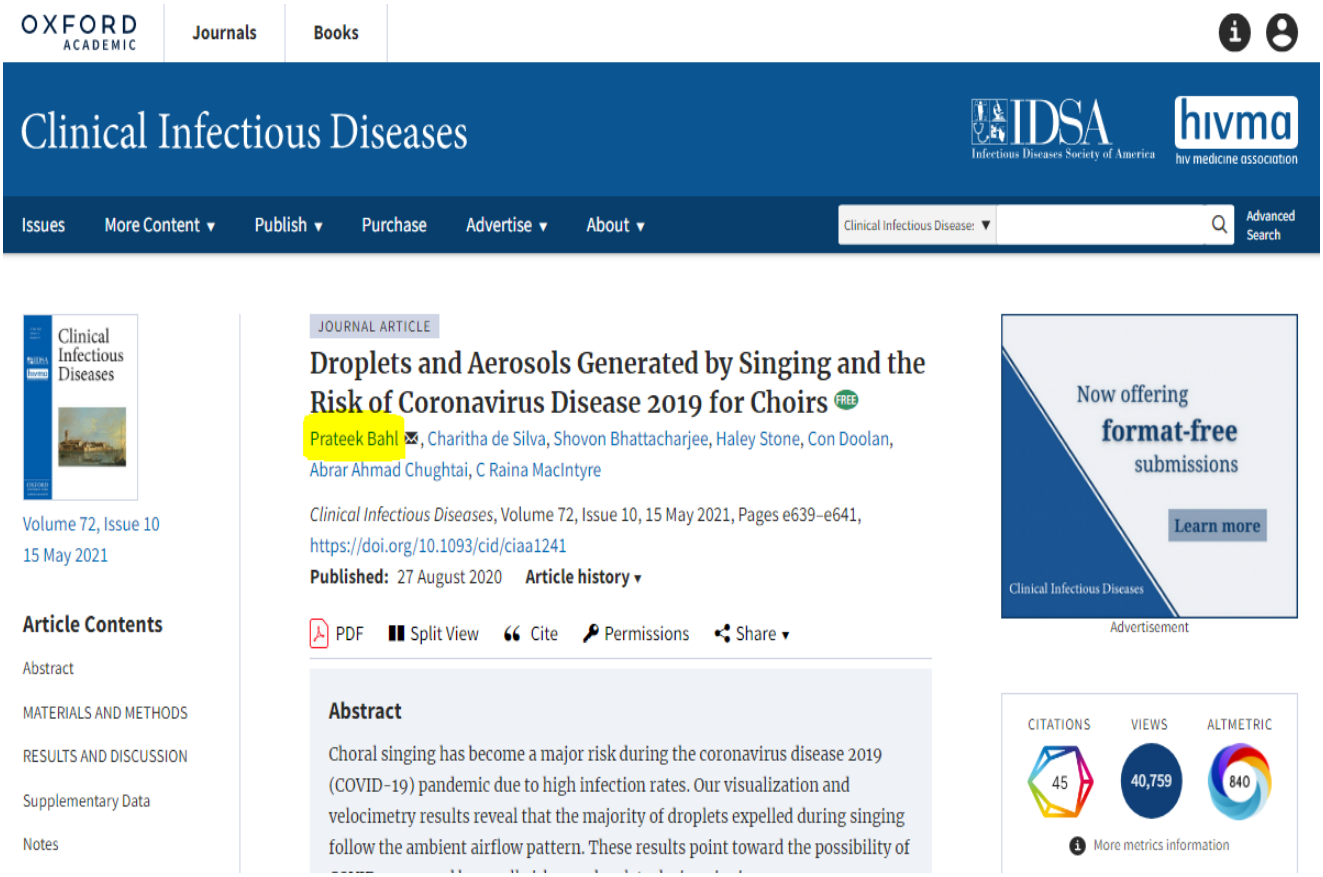
Title of the Paper: Droplets and Aerosols Generated by Singing and the Risk of Coronavirus Disease 2019 for Choirs

Name of the Author: Prateek Bahl

Name of the Journal: Clinical Infectious Diseases



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Clinical Infectious Diseases

Volume 72, Issue 10
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RESULTS AND DISCUSSION
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JOURNAL ARTICLE

Droplets and Aerosols Generated by Singing and the Risk of Coronavirus Disease 2019 for Choirs

Prateek Bahl, Charitha de Silva, Shovon Bhattacharjee, Haley Stone, Con Doolan, Abrar Ahmad Chughtai, C Raina MacIntyre

Clinical Infectious Diseases, Volume 72, Issue 10, 15 May 2021, Pages e639–e641, https://doi.org/10.1093/cid/ciaa1241

Published: 27 August 2020 **Article history**

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Abstract

Choral singing has become a major risk during the coronavirus disease 2019 (COVID-19) pandemic due to high infection rates. Our visualization and velocimetry results reveal that the majority of droplets expelled during singing follow the ambient airflow pattern. These results point toward the possibility of

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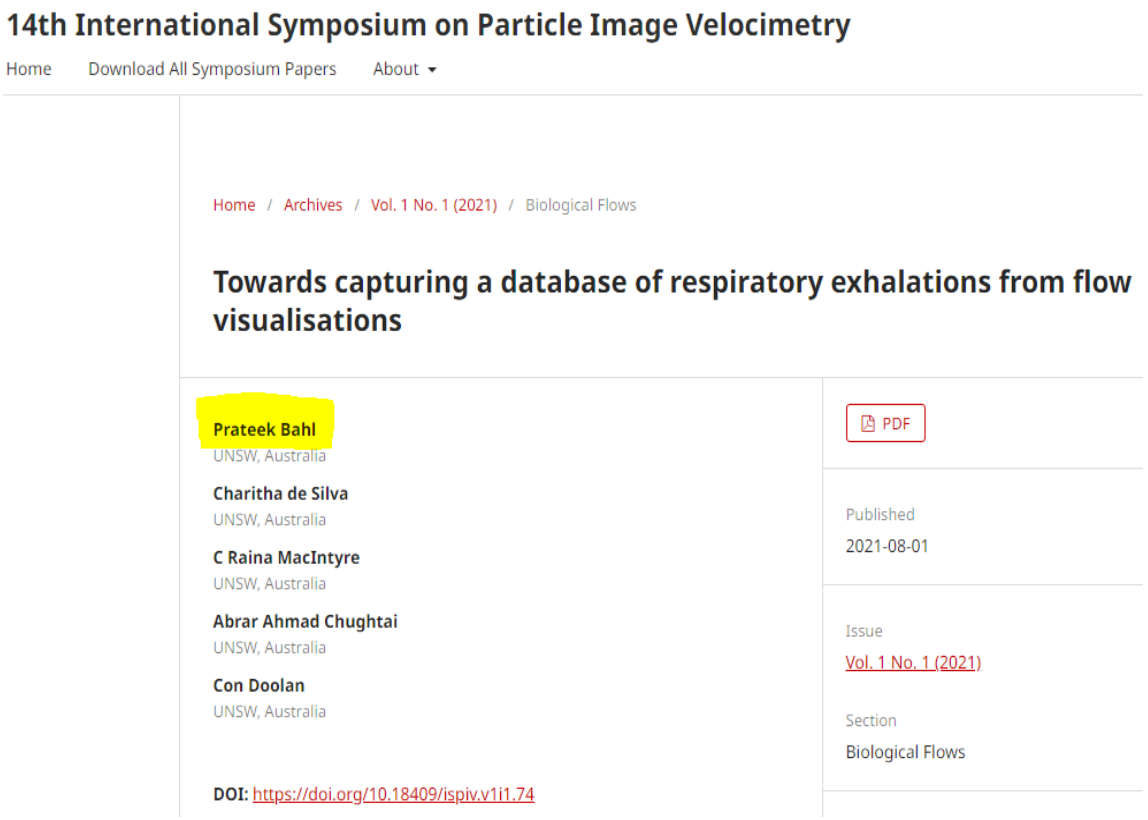
Title of the Paper: Towards capturing a database of respiratory exhalations from flow visualisations

Name of the Author: Prateek Bahl

Name of the Journal: 14th International Symposium on Particle Image Velocimetry



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Towards capturing a database of respiratory exhalations from flow visualisations

Prateek Bahl
UNSW, Australia

Charitha de Silva
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C Raina MacIntyre
UNSW, Australia

Abrar Ahmad Chughtai
UNSW, Australia

Con Doolan
UNSW, Australia

DOI: https://doi.org/10.18409/ispiv.v1i1.74

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Section
Biological Flows

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Title of the Paper: Experimental Evidence for the Optimal Design of a High-Performing Cloth Mask

Name of the Author: Prateek Bahl

Name of the Journal: ACS biomaterials science & engineering

ACS Biomaterials SCIENCE & ENGINEERING

pubs.acs.org/journal/abseba Article

Experimental Evidence for the Optimal Design of a High-Performing Cloth Mask

Shovon Bhattacharjee,* Prateek Bahl, Charitha de Silva, Con Doolan, Abrar Ahmad Chughtai, David Heslop, and Chandini Raina MacIntyre

Cite This: *ACS Biomater. Sci. Eng.* 2021, 7, 2791−2802 Read Online

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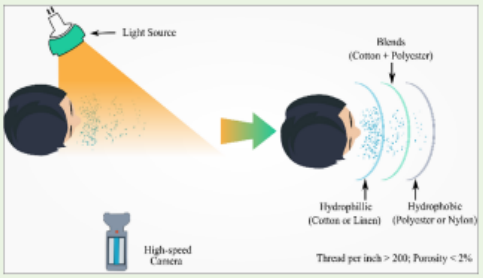
ABSTRACT: Cloth masks can be an alternative to medical masks during pandemics. Recent studies have examined the performance of fabrics under various conditions; however, the performance against violent respiratory events such as human sneezes is yet to be explored. Accordingly, we present a comprehensive experimental study using sneezes by a healthy adult and a tailored image-based flow measurement diagnostic system evaluating all dimensions of protection of commonly available fabrics and their layered combinations: the respiratory droplet blocking efficiency, water resistance, and breathing resistance. Our results reveal that a well-designed cloth mask can outperform a three-layered surgical mask for such violent respiratory events. Specifically, increasing the number of layers significantly increases the droplet blocking efficiency, on average by ∼20 times per additional fabric layer. A minimum of three layers is necessary to resemble the droplet blocking performance of surgical masks, and a combination of cotton/linen (hydrophilic inner layer)−blends (middle layer)−polyester/nylon (hydrophobic outer layer) exhibited the best performance among overall indicators tested. In an optimum three-layered design, the average thread count should be greater than 200, and the porosity should be less than 2%. Furthermore, machine washing at 60 °C did not significantly impact the performance of cloth masks. These findings inform the design of high-performing homemade cloth masks.



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Title of the Paper: Assessment of Reservoir Storage Capacity Loss and Investigating the Effects of Climate Variability on Reservoir Sedimentation in Italy

Name of the Author: Ritesh EpariPatro

Name of the Journal: EGU21 EGU General Assembly

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Assessment of Reservoir Storage Capacity Loss and Investigating the Effects of Climate Variability on Reservoir Sedimentation in Italy

Epari Ritesh Patro[1] and Carlo De Michele[2]

[1]Department of Civil and Environmental Engineering, Politecnico Di Milano, Italy (epariritesh.patro@polimi.it)
[2]Department of Civil and Environmental Engineering, Politecnico Di Milano, Italy (carlo.demichele@polimi.it)

Reservoir sedimentation has a prominent impact on the hydropower performance in the future and is a growing concern for hydropower stakeholders. Sedimentation caused by soil erosion is influenced by various parameters. Reservoir sedimentation is one of the most challenging problems that affect hydroelectric production since it overall causes a reduction of the reservoir capacity that overcomes the annual increase in storage volume and implies a dangerous net loss of energy. The first part of this study examined various Italian reservoirs (50 dams) to determine sedimentation rates and storage capacity loss based on available bathymetric surveys. All the reservoirs studied here have reached an average age of 74 years as of 2019, with the highest loss of

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Farrukh Nagar, Gurgaon.

Title of the Paper: Parametric optimization and analysis of cavitation erosion behavior of Ni-based + 10WC microwave processed composite clad using Taguchi approach

Name of the Author: Sandeep Bansal

Name of the Journal: Surface Topography: Metrology and Properties

Surface Topography: Metrology and Properties

PAPER

Parametric optimization and analysis of cavitation erosion behavior of Ni-based + 10WC microwave processed composite clad using Taguchi approach

Sandeep Bansal[1], Jonty Mago[1], Dheeraj Gupta[1] and Vivek Jain[1]

Published 28 January 2021 • © 2021 IOP Publishing Ltd

Surface Topography: Metrology and Properties, Volume 9, Number 1

Citation Sandeep Bansal *et al* 2021 *Surf. Topogr.: Metrol. Prop.* 9 015011

DOI 10.1088/2051-672X/abda94

Abstract

This study aims to develop cavitation erosion-resistant clads on stainless steel (SS-316) using the

Principal
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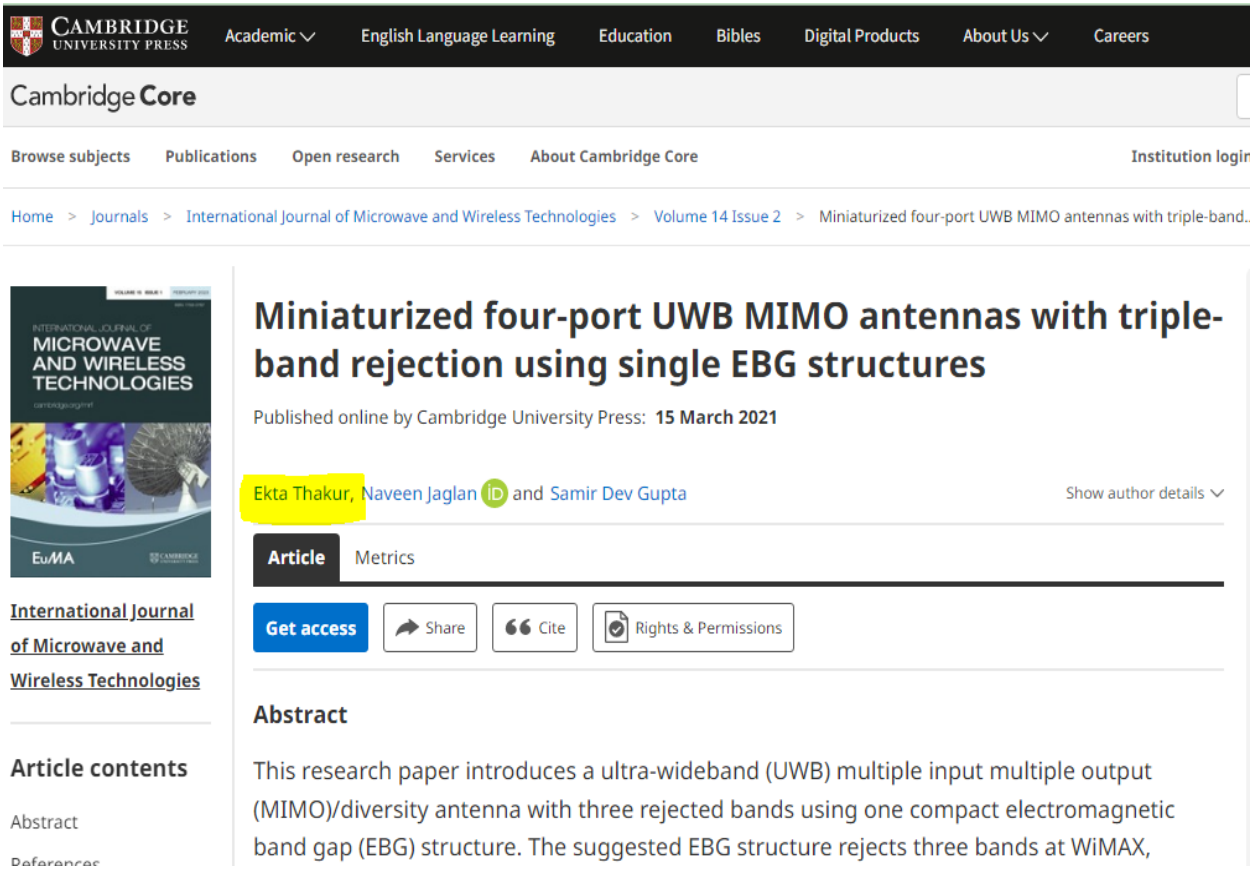
Farrukh Nagar, Gurgaon.

Title of the Paper: Miniaturized four-port UWB MIMO antennas with triple-band rejection using single EBG structures

Name of the Author: Dr. Ekta Thakur

Name of the Journal: International Journal of Microwave and Wireless Technologies



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International Journal of Microwave and Wireless Technologies

Article contents

Abstract

References

Miniaturized four-port UWB MIMO antennas with triple-band rejection using single EBG structures

Published online by Cambridge University Press: **15 March 2021**

Ekta Thakur, Naveen Jaglan and Samir Dev Gupta Show author details

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Abstract

This research paper introduces a ultra-wideband (UWB) multiple input multiple output (MIMO)/diversity antenna with three rejected bands using one compact electromagnetic band gap (EBG) structure. The suggested EBG structure rejects three bands at WiMAX,

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Farrukh Nagar, Gurgaon.

Title of the Paper: Unique photoluminescence response of MoS2 quantum dots over a wide range of As (III) in aqueous media

Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Nanotechnology

Nanotechnology

PAPER

Unique photoluminescence response of MoS_2 quantum dots over a wide range of As (III) in aqueous media

Jamilur R Ansari[3,1], Md Farhan Naseh[3,1], Neelam Singh[1], Tapan Sarkar[4,2] and Anindya Datta[4,1]

Published 4 June 2021 • © 2021 IOP Publishing Ltd

Nanotechnology, Volume 32, Number 34

Citation Jamilur R Ansari *et al* 2021 *Nanotechnology* **32** 345708

DOI 10.1088/1361-6528/abfee8

Abstract

We report the solvothermal synthesis of MoS_2 based quantum dots (QDs) and the performance

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Farrukh Nagar, Gurgaon.

Title of the Paper: Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology

Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Applied Physics A

Springer Link

Home > Applied Physics A > Article

Published: 29 June 2021

Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology

Neelam Singh, J. R. Ansari, Mrinal Pal, Avik Das, Debasis Sen, Dipankar Chattopadhyay & Anindya Datta

Applied Physics A **127**, Article number: 568 (2021) | Cite this article

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Abstract

Co-RGO nanocomposites are known to show interesting properties suitable for various applications. However, its use in the vital field of plasmonic nanocomposites is restricted as Co nanoparticles have high damping and dielectric loss. In this work, we have demonstrated a simple synthetic way to produce water-dispersible shape variant Co-reduced graphene oxide (RGO) hybrid nanocomposites, which can overcome those barriers and delineate two plasmonic peaks. Prepared multifunctional optical materials show both UV and visible range of plasmonic responses of Co NPs. While the single domain Co NPs show spin-up channel

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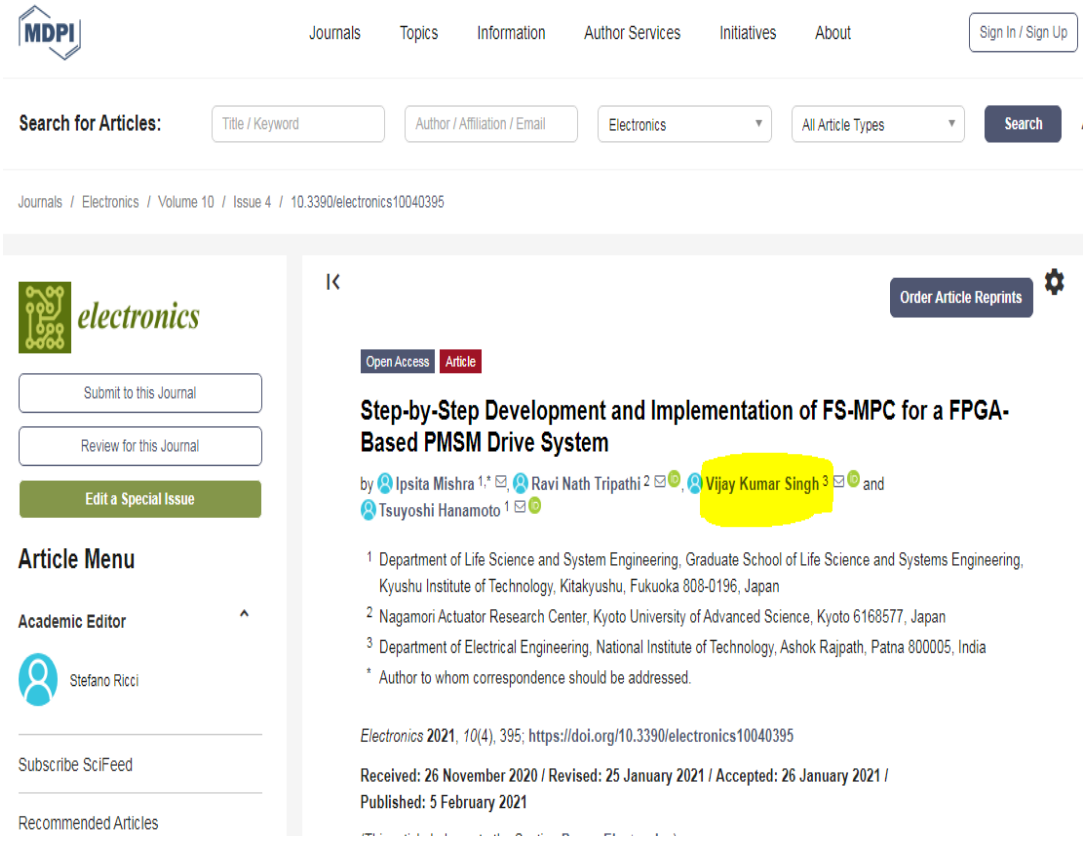
Title of the Paper: Step by Step Development and Implementation of FS-MPC for FPGA based PMSM Drive System

Name of the Author: Vijay Kumar Singh

Name of the Journal: Electronics



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Step-by-Step Development and Implementation of FS-MPC for a FPGA-Based PMSM Drive System

by Ipsita Mishra [1,*], Ravi Nath Tripathi [2], Vijay Kumar Singh [3] and Tsuyoshi Hanamoto [1]

[1] Department of Life Science and System Engineering, Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Kitakyushu, Fukuoka 808-0196, Japan

[2] Nagamori Actuator Research Center, Kyoto University of Advanced Science, Kyoto 6168577, Japan

[3] Department of Electrical Engineering, National Institute of Technology, Ashok Rajpath, Patna 800005, India

* Author to whom correspondence should be addressed.

Electronics **2021**, *10*(4), 395; https://doi.org/10.3390/electronics10040395

Received: 26 November 2020 / Revised: 25 January 2021 / Accepted: 26 January 2021 / Published: 5 February 2021

Principal
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Title of the Paper: Energy Efficient Scheduling in Cloud Computing using Black Widow Optimization

Name of the Author: Dr. Manoj Kumar

Name of the Journal: Journal of Physics Conference Series

Journal of Physics: Conference Series

PAPER • OPEN ACCESS

Energy Efficient Scheduling in Cloud Computing using Black Widow Optimization

Manoj Kumar[1] and Suman[2]

Journal of Physics: Conference Series, Volume 1950, International Conference on Mechatronics and Artificial Intelligence (ICMAI) 2021 27 February 2021, Gurgaon, India

Citation Manoj Kumar and Suman 2021 *J. Phys.: Conf. Ser.* 1950 012063

DOI 10.1088/1742-6596/1950/1/012063

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Title of the Paper: META-HEURISTICS TECHNIQUES IN CLOUD COMPUTING: APPLICATIONS AND CHALLENGES

Name of the Author: Dr. Manoj Kumar

Name of the Journal: Indian Journal of Computer Science and Engineering

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ABSTRACT

Title : META-HEURISTICS TECHNIQUES IN CLOUD COMPUTING: APPLICATIONS AND CHALLENGES

Authors : Manoj Kumar, Suman

Keywords : Cloud Computing, swarm intelligence, nature inspired, virtual machine, scheduling,

Issue Date : Mar-Apr 2021

Abstract : Cloud computing has emerged as highly demanding technology in recent years. The transformation of data and services towards cloud has reduced the increased expenditure on hardware and software in the market. The integration of cloud with many technologies like mobile, Internet of Things, etc. has brought new challenges in cloud computing. Researchers have applied various swarm intelligence, nature inspired, and hybrid algorithms to find a pare-to optimal solution for them. State of art optimization algorithms that are applied in solving these problems is presented in this paper. The applications of these algorithms in load balancing, scheduling, resource allocation, virtual machine allocation, and placement have been discussed and analyzed in cloud computing. The impact of these algorithms on quality of service is also analyzed to present some valuable suggestion.

Page(s) : 385-395

ISSN : 0976-5166

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Title of the Paper: R.K. Narayan - A Concept Storyteller

Name of the Author: Anchal Bhutani

Name of the Journal: Literary Herald

www.TLHjournal.com Literary Herald ISSN: 2454-3365
An International Refereed/Peer-reviewed English e-Journal
Impact Factor: 4.727 (SJIF)

R.K. Narayan - A Concept Storyteller

Anchal Bhutani
MA (English), MGSU, SLET
Sri Ganganagar
Rajasthan

Abstract

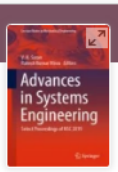
R. K. Narayan is a prolific Indian writer who took up English as his medium of communication. His writing style is a close representation of the pre and post-colonial period in India. Being raised by a grandmother, he adopted an excellent imagination power without overlooking the unfavourable surroundings. His writings explicitly reflect his achievement and struggle and everything that most of the common people can go through. Amidst

Title of the Paper: Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Name of the Author: Isha Arora

Name of the Journal: Advances in Systems Engineering

Springer Link



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Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Isha Arora, Jaimala Gambhir & Tarlochan Kaur

Conference paper | First Online: 24 January 2021

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Abstract

Solar radiation forecasting is fundamental for carrying out various research works in renewable energy sources (RESs). This paper gives solar radiation intensity prediction approach based on artificial neural networks (ANN). There are numerous geographical and climatic parameters

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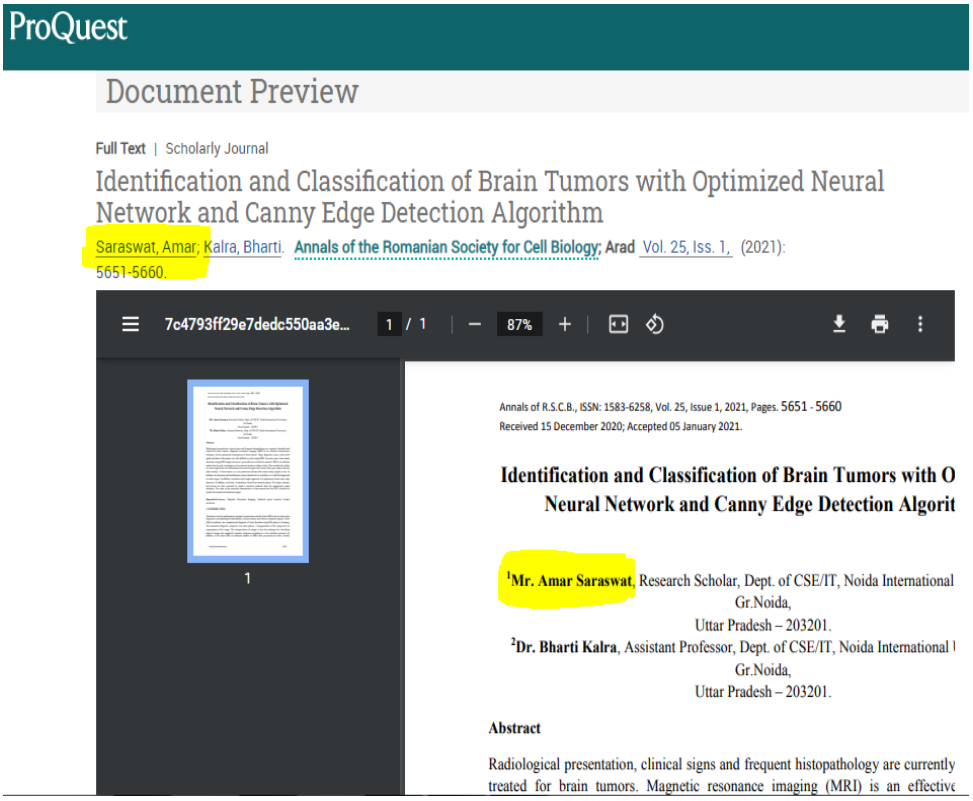
Title of the Paper: Identification and Classification of Brain Tumors with Optimized Neural Network and Canny Edge Detection Algorithm

Name of the Author: Amar Saraswat

Name of the Journal: Annals of the Romanian Society for Cell Biology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Saraswat, Amar; Kalra, Bharti. Annals of the Romanian Society for Cell Biology; Arad Vol. 25, Iss. 1, (2021): 5651-5660.

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1

Annals of R.S.C.B., ISSN: 1583-6258, Vol. 25, Issue 1, 2021, Pages. 5651 - 5660
Received 15 December 2020; Accepted 05 January 2021.

Identification and Classification of Brain Tumors with O Neural Network and Canny Edge Detection Algorit

[1]**Mr. Amar Saraswat**, Research Scholar, Dept. of CSE/IT, Noida International Gr.Noida, Uttar Pradesh – 203201.
[2]**Dr. Bharti Kalra**, Assistant Professor, Dept. of CSE/IT, Noida International Gr.Noida, Uttar Pradesh – 203201.

Abstract

Radiological presentation, clinical signs and frequent histopathology are currently treated for brain tumors. Magnetic resonance imaging (MRI) is an effective

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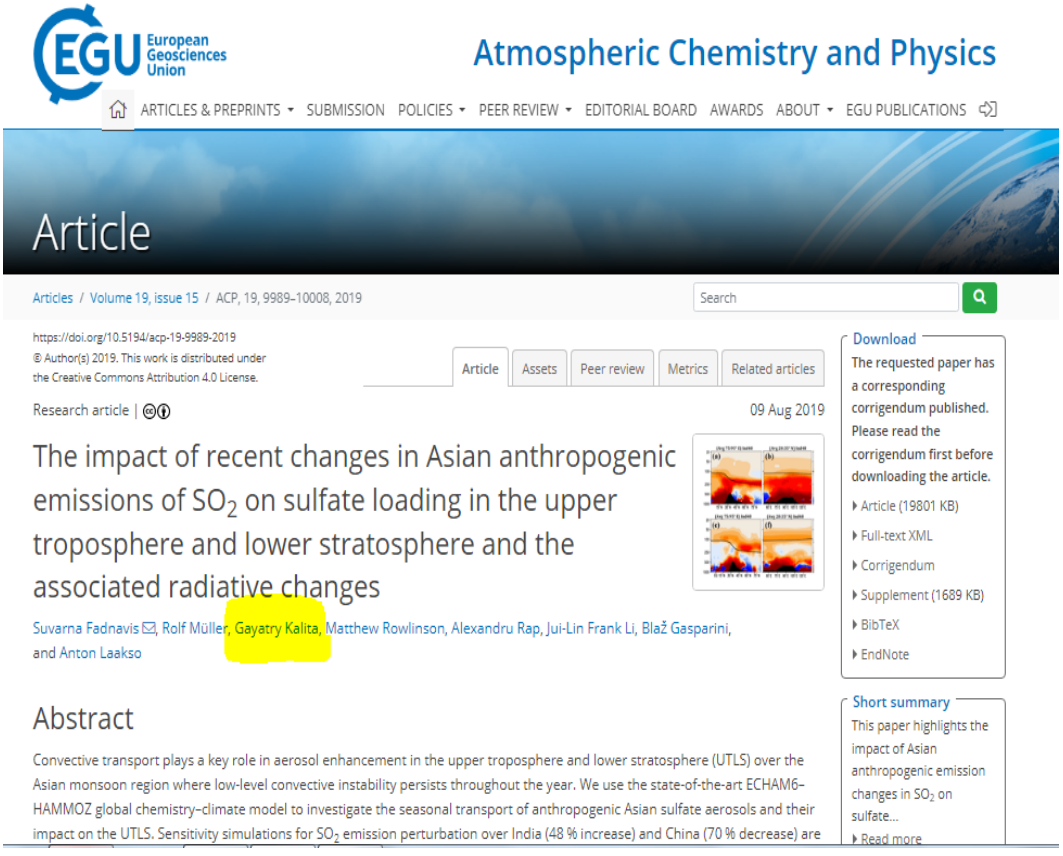
Title of the Paper: The impact of recent changes in Asian anthropogenic emissions of SO2 on sulfate loading in the upper troposphere and lower stratosphere and the associated radiative changes

Name of the Author: Gayatry Kalita

Name of the Journal: Atmospheric Chemistry and Physics



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Abstract

Convective transport plays a key role in aerosol enhancement in the upper troposphere and lower stratosphere (UTLS) over the Asian monsoon region where low-level convective instability persists throughout the year. We use the state-of-the-art ECHAM6-HAMMOZ global chemistry–climate model to investigate the seasonal transport of anthropogenic Asian sulfate aerosols and their impact on the UTLS. Sensitivity simulations for SO_2 emission perturbation over India (48 % increase) and China (70 % decrease) are

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Title of the Paper: Friction-stir welding of AA6061-T6: The effects of Al2O3 nano-particles addition

Name of the Author: TANVIR SINGH

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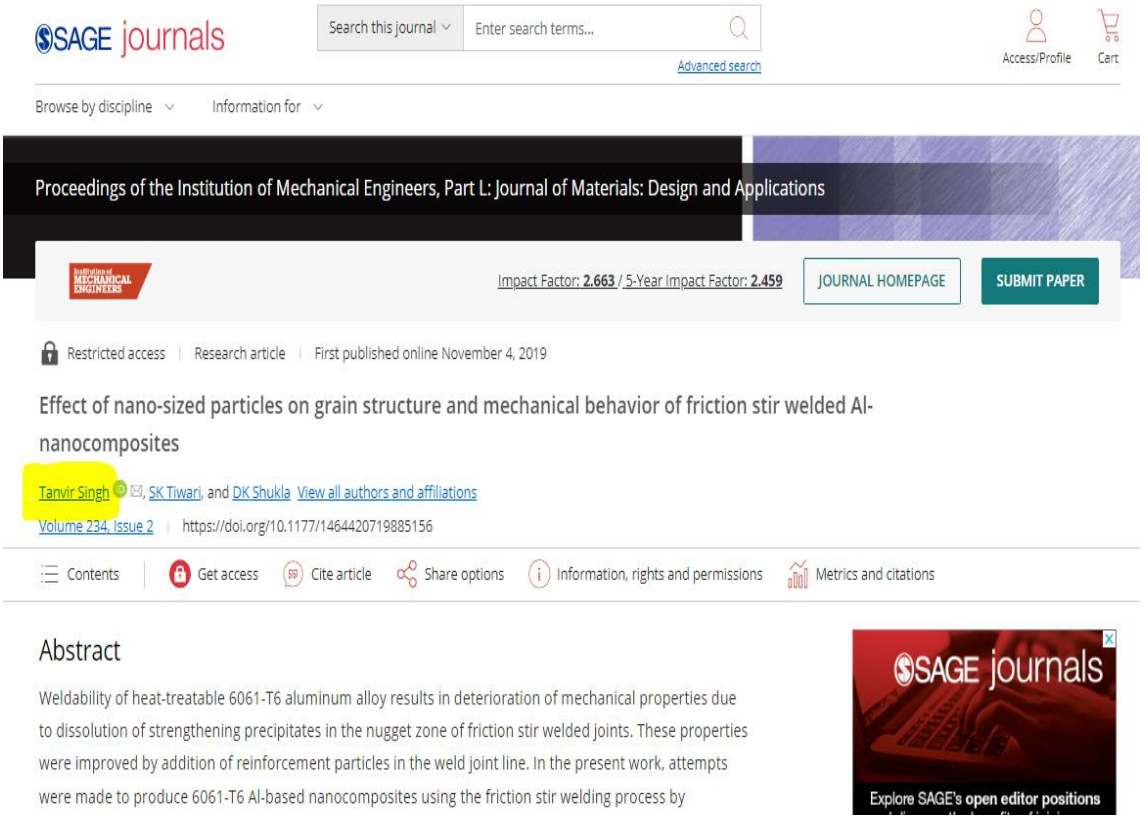
Name of the Author: TANVIR SINGH

Name of the Journal: The Journal of Materials: Design and Applications



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Effect of nano-sized particles on grain structure and mechanical behavior of friction stir welded Al-nanocomposites

Tanvir Singh, SK Tiwari, and DK Shukla View all authors and affiliations

Volume 234, Issue 2 | https://doi.org/10.1177/1464420719885156

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Abstract

Weldability of heat-treatable 6061-T6 aluminum alloy results in deterioration of mechanical properties due to dissolution of strengthening precipitates in the nugget zone of friction stir welded joints. These properties were improved by addition of reinforcement particles in the weld joint line. In the present work, attempts were made to produce 6061-T6 Al-based nanocomposites using the friction stir welding process by

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Title of the Paper: Production of AA6061-T6/Al2O3 reinforced nanocomposite using friction stir welding

Name of the Author: TANVIR SINGH

Name of the Journal: Engineering Research Express

Engineering Research Express

PAPER

Production of AA6061-T6/Al_2O_3 reinforced nanocomposite using friction stir welding

Tanvir Singh[1], S K Tiwari[1] and D K Shukla[1]

Published 13 December 2019 • © 2019 IOP Publishing Ltd
Engineering Research Express, Volume 1, Number 2
Citation Tanvir Singh *et al* 2019 *Eng. Res. Express* 1 025052
DOI 10.1088/2631-8695/ab5e27

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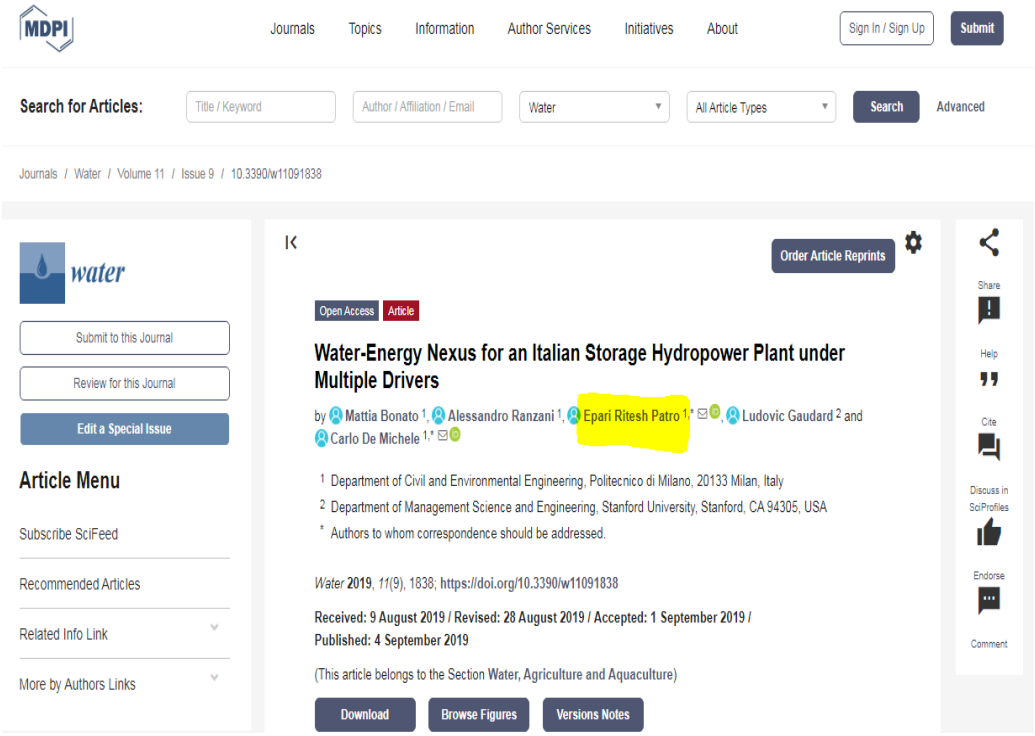
Name of the Author: Ritesh EpariPatro

Name of the Journal: Water



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Title of the Paper: AC conductivity and dielectric relaxation of Se80–xTe20Bix (x=6, 12) glasses

Name of the Author: Deepika

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DOI: https://doi.org/10.13036/17533562.60.6.014

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The present paper reports the ac conductivity and dielectric relaxation of $Se_{80-x}Te_{20}Bi_x$ (x=6, 12) glasses at various temperatures and frequencies. It was found that ac conductivity increases on increase of frequency, temperature as well as Bi content. The increase in conductivity is due to the formation of lower energy Se–Bi and Te–Bi bonds which takes the system to a stable lower energy configuration. The values of frequency exponent (s) were calculated and it was found that samples obey CBH model of conduction. Density of states ($N(E_f)$) near the fermi level were calculated at different temperatures and it was found that addition of Bi increases the number of localised states in the tails which leads to increase in ac conductivity. Further, it was found that dielectric parameters increase with increase in temperature. However, a decrease in both dielectric constant (ε') and dielectric loss ((ε") was observed with increase in

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Title of the Paper: Dielectric relaxation and AC conductivity behavior of Se80Te15Bi5/PVA nanocomposite film

Name of the Author: Deepika

Name of the Journal: Polymer Testing

ELSEVIER

Polymer Testing
Volume 79, October 2019, 106088

Material Properties

Dielectric relaxation and AC conductivity behaviour of $Se_{80}Te_{15}Bi_5$/PVA nanocomposite film

Rakhi Nangia [a], Neeraj K. Shukla [a], Ambika Sharma [a], Deepika [b]

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Title of the Paper: Effect of Pb Addition on Optical and Spectral Properties of Se–Ge Thin Films

Name of the Author: Deepika

Name of the Journal: Glass Physics and Chemistry

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Published: 02 July 2019

Effect of Pb Addition on Optical and Spectral Properties of Se–Ge Thin Films

Deepika, Hukum Singh & N. S. Saxena

Glass Physics and Chemistry **45**, 217–223 (2019) | Cite this article

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Abstract

The present paper reports the optical and spectral properties of amorphous $Se_{58}Ge_{42-x}Pb_x$ (x = 6, 12, 18, 20) thin films deposited onto pre-cleaned glass substrate under a vacuum of 10^{-5} Torr. The amorphous samples have been prepared using melt quenching method. The structural characterization of the samples has been done using XRD and EDXA. The optical absorption and transmission spectra were recorded using UV-Vis spectrophotometer in the wavelength range 400–2500 nm. The study of absorption spectra shows that sample exhibits indirect optical band gap which decreases on increase of Pb content in Se–Ge system. This decrease in band gap has been explained in terms of chemical bond approach and density of

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Title of the Paper: Study of electrical conduction in nanostructured Se2.5Ge1-xSnx (x=0, 0.3, 0.5) thin films

Name of the Author: Deepika

Name of the Journal: Materials Today: Proceedings

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Volume 18, Part 3, 2019, Pages 928-933

Study of electrical conduction in nanostructured $Se_{2.5}Ge_{1-x}Sn_x$ (x=0, 0.3, 0.5) thin films

Deepika [a], Hukum Singh [a], N.S. Saxena [b]

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Title of the Paper: Design of Compact UWB MIMO Antenna with Enhanced Bandwidth

Name of the Author: Dr. Ekta Thakur

Name of the Journal: Progress In Electromagnetics Research C

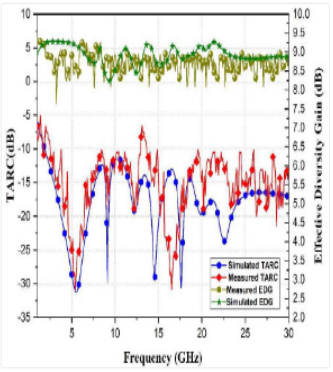
2019-11-29

Design of Compact UWB MIMO Antenna with Enhanced Bandwidth

By Ekta Thakur, Naveen Jaglan, Samir Dev Gupta

Progress In Electromagnetics Research C, Vol. 97, 83-94, 2019

doi:10.2528/PIERC19083004



Abstract

A novel compact Ultra-Wideband Multiple Input Multiple Output (UWB-MIMO) antenna with enhanced bandwidth is proposed. The bandwidth of the designed antenna ranges from 1 to 30 GHz which covers L, S, C, X, Ku, K bands and some part of Ka-band. A square slot & inverse L-shaped strip is used to improve the isolation amid antenna elements. The suggested antenna achieves Mutual Coupling and Envelope Correlation Coefficient below -17 dB and 0.15 respectively. MIMO performance parameters like Mean Effective Gain is around 0 dB, and Total Active Reflection Coefficient is less than -10 dB. The Channel Capacity Loss and Effective Diversity Gain are less than 0.3 bits/s/Hz and 9.2 dB, respectively. The

Title of the Paper: An efficient text-independent speaker verification for short utterance data from Mobile devices

Name of the Author: SANGHAMITRA VIKAS ARORA

Name of the Journal: Multimedia Tools and Applications

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An efficient text-independent speaker verification for short utterance data from Mobile devices

Sanghamitra V. Arora & Rekha Vig

Multimedia Tools and Applications **79**, 3049–3074 (2020) | Cite this article

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Abstract

Speaker verification is the process used to recognize a speaker from his/her voice characteristics by extracting the features. Speaker verification with text-independent data is a process of verifying the speaker identity without limitation in the speech content. In the speaker verification process, long utterances are normally used but it contains lot of silences leading to complexity and more disruptions. So, we are performing speaker verification method based on short utterance data. The main objective of the research work is to extract, characterize, and recognize the information about speaker identity. Our proposed work contains four stages: 1) utterance partitioning, 2) feature extraction, 3) feature selection, and

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Title of the Paper: Controlling self-assembly of ultra-small silver nanoparticles: Surface enhancement of Raman and fluorescent spectra

Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Optical Materials

Outline

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Optical Materials
Volume 94, August 2019, Pages 138-147

Controlling self-assembly of ultra-small silver nanoparticles: Surface enhancement of Raman and fluorescent spectra

Jamilur R. Ansari [a], Neelam Singh [a], Razi Ahmad [b], Dipankar Chattopadhyay [c], Anindya Datta [a]

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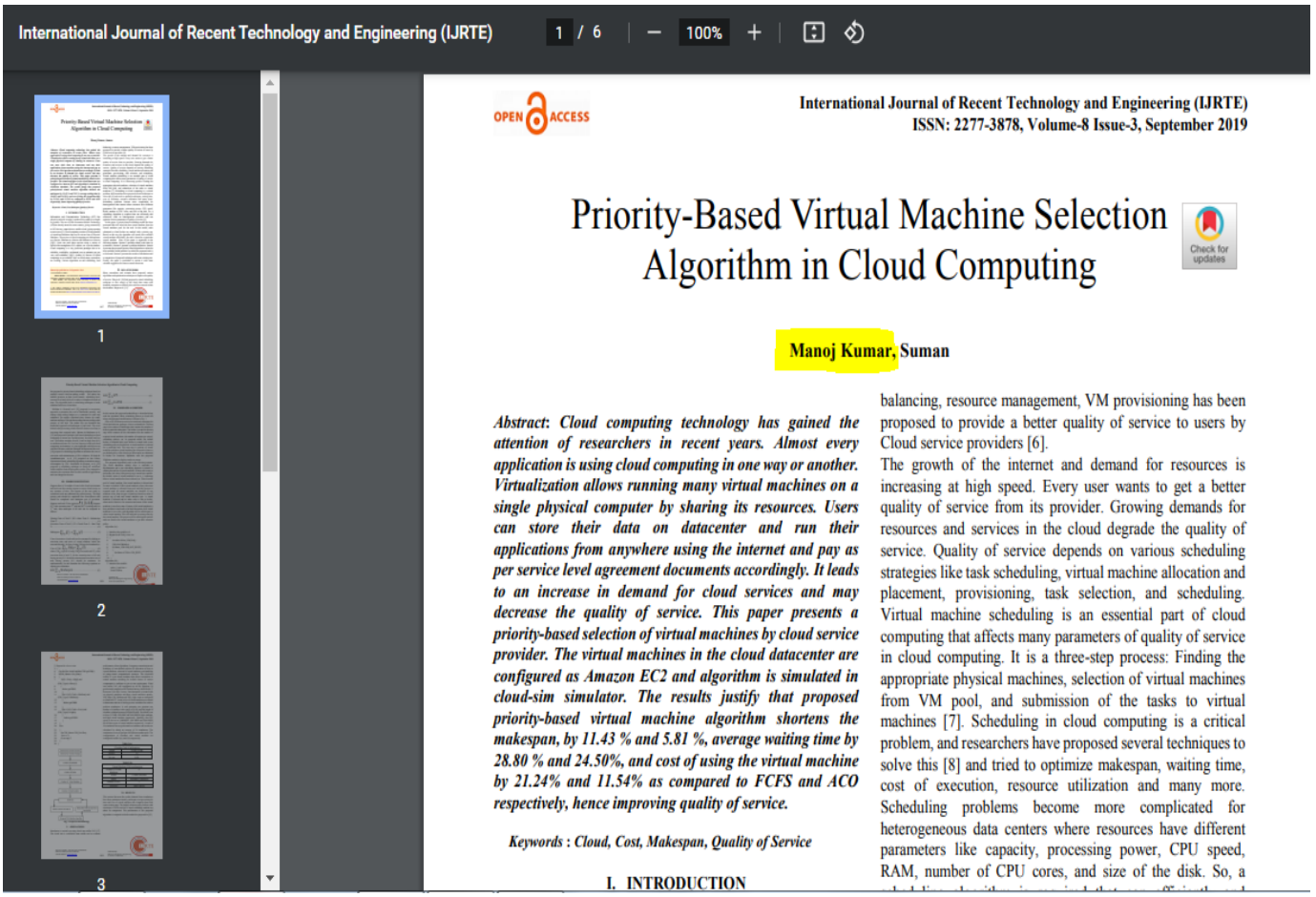
Name of the Author: Dr. Manoj Kumar

Name of the Journal: International Journal of Recent Technology and Engineering (IJRTE)



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Title of the Paper: Mechanical Characterization Of Dissimilar Welded Joint Of SS202 And SS304 By Tungsten Inert Gas Welding

Name of the Author: Poshan Lal Sahu

Name of the Journal: International Journal of Research in Engineering and Innovation (IJREI)

International Journal of Research in Engineering and Innovation Vol-3, Issue-4 (2019), 245-252

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International Journal of Research in Engineering and Innovation (IJREI)

journal home page: http://www.ijrei.com

ISSN (Online): 2456-6934

Vol-3, Issue-4

Mechanical characterization of dissimilar welded joint of SS202 and SS304 by tungsten inert gas welding

Rahul Kumar Keshari[1], Poshan Lal Sahu[2]

[1]*M.Tech Scholar, Department of Mechanical Engineering, Dronacharya College of Engineering, Gurugram, Haryana, India*
[2]*Department of Mechanical Engineering, Dronacharya College of Engineering, Gurugram, Haryana, India*

Abstract

The dissimilar weld joint is considered as one of the most commonly used fabrication methods in now a day. The most popular welding for dissimilar alloy is tungsten inert gas welding (TIG) in which inert and active gases are used. In this work SS202 and SS304 are used for welding. SS 202 has almost similar mechanical properties as compared to SS304 grade, but its ability to resist corrosion is somewhat less as compared to SS304 grade in chloride environment. These materials and their welding is used in nuclear reactor and pressure vessel where high temperature is used.

The object of this paper is to investigate the mechanical properties and microstructure analysis of welded joint between SS202 and SS304 with two different filler metal SS308L and SS316L by tungsten inert gas welding. Higher tensile strength was achieved with filler rod SS308L. The analysis confirms the well mixing of stainless steel and mild steel with filler rods inside the weld pool. The mechanical properties in terms of ultimate tensile strength found to be high as 488.61N/mm^2 with filler rod SS308L and micro hardness value at the center of the welded zone was found maximum (272.2 HV) with filler material SS308L, the fracture of the tensile test specimen were obtained outside and at the weldment of the weld zone.

Keywords: Tensile Strength, Micro-hardness, Microstructure, stainless steel

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Title of the Paper: Weathering Server System with Non-identical Units and Priority to Repair of Main Unit

Name of the Author: Dr. Ashok Kumar

Name of the Journal: Journal of Advanced Research in Dynamical and Control Systems

Dheeraj Pawar, Ph.D.

Weathering server system with non-identical units and priority to repair of main unit

Authors	Ashok Kumar, D Pawar, SC Malik
Publication date	2019/10/23
Journal	Journal of Advanced Research in Dynamical and Control Systems
Volume	11
Issue	10
Pages	352-358
Publisher	Institute of Advanced Scientific Research
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Name of the Author: Surender Dhaka

Name of the Journal: Journal of Meteorological Research

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Perturbations in Earth's Atmosphere over An Indian Region during the Total Solar Eclipse on 22 July 2009

S. B. Surendra Prasad, Vinay Kumar, K. Krishna Reddy, S. K. Dhaka, Shristy Malik, M. Venkatarami Reddy & U. Murali Krishna

Journal of Meteorological Research **33**, 784–796 (2019) | Cite this article

Abstract

During a total solar eclipse (TSE) on 22 July 2009, atmospheric perturbations were monitored from the surface to thermosphere to understand TSE's impact on the meteorological (temperature, relative humidity, wind speed, and wind direction) and chemical (O_3 and NO_x) parameters around Kadapa (14.28°N, 78.42°E), a tropical semi-arid region of India. For this purpose, an experiment was conducted at Yogi Vemana University Campus, Kadapa, India, to measure the temperature, wind speed, wind direction, and concentrations of ozone (O_3), NO, NO_2, and NO_x by using the automatic weather station (AWS) and O_3 analyzer. On the eclipse

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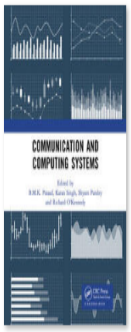
Name of the Journal: Communication and Computing Systems



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Title of the Paper: Profit analysis of a warm standby non-identical unit system with single server performing in normal/abnormal environment

Name of the Author: Ashok Kumar

Name of the Journal: Life Cycle Reliability and Safety Engineering

Original Research | Published: 21 June 2019

Profit analysis of a warm standby non-identical unit system with single server performing in normal/abnormal environment

Ashok Kumar, Dheeraj Pawar & S. C. Malik

Life Cycle Reliability and Safety Engineering **8**, 219–226 (2019) | Cite this article

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Abstract

A system/unit is called working in normal environment if it is operating within prescribed conditions set by the manufacturer, otherwise the system is called working in abnormal environment. For example; a hydraulic machine having capacity uplifting the weight of 500 tons exceeds its capacity is termed as working in abnormal environment conditions. In this paper, profit analysis of a warm standby non-identical unit system with single server subject normal/abnormal environment conditions has been discussed. There is a single server who is allowed to do job in normal weather condition only and while performing its job it adopts

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Love, Desire And Ecstasy In Kalidasa's Play Malvikagnimitram

Aishwarya Sinha

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Abstract

A classical Indian language Sanskrit is said to be originated from Indus Valley presently forming part of north-western India and Pakistan, and has been grouped with the Indo-European languages. Sanskrit was mostly used for religious discourses and is no longer popular in this modern world. Despite being an ancient language, it conveyed a lot about the modern world many years ago, and this knowledge is relevant even today. Kalidasa, one of the greatest literary dramatists, has infused the piousness of this language into his works. He is unrivalled to exhibit his conformity to nature's law and state that only divine intervention can mould the fate of characters. Theme of love, jealousy, friendship, desire, etc has been already explored by Kalidasa in his play that guides to the modern time in this language itself. The present paper explores the tendency of desires in Dharini, Iravati and Malavika by Kalidasa in the light of *Malvikagnimitram* and how petals of love unfold bringing ecstasy in the life of Malavika.

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Name of the Author: Dr. Parul Mishra

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Vol.7 Issue 1
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RESEARCH ARTICLE

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FUNCTIONAL ASPECTS OF COMMUNICATION SKILLS FOR PROFESSIONAL EMPOWERMENT

Sunil K. Mishra[1] and Parul Mishra[2]

[1](Associate Professor (English), Amity School of Liberal Arts, Amity University, Haryana.)
[2](Assistant Professor (English), G D Goenka University Gurgaon.)

DOI:10.333329/joell.7.1.79

ABSTRACT

Today, it is difficult to give an accurate number of languages available across the world because a particular language has many sub-plots as per its dialects. Thus, linguistic variety, diversityand multi-linguistic approaches are dominant over the entireworld and India in not an exception. Language is also known as disorganized and chaotic combination of sounds. We can say language, today, is an inseparable part of human society. In fact, it is through language only that human civilization has come out of the stone age and developed science, art, technology, law, etc. at a great extent and the English language has undoubtedly become a means of mass-communication,

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Exploring Communicative Skills as Workforce for Dynamic Entrepreneurship

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Abstract

Acquisition of skills and its continual development may be considered as a defining element for the growth story of India, where we need to explore its integration with education. If we look back at the conventional model of education, we find that the success of those students totally depends on, what we don't see are the countless hours they consumed behind the divisions, improving their expertise, and edifying their skills. Today's Indian workforce is massively talented and adaptable. It focuses not only on economic, infrastructure and technical development but also tend to lead the nation towards industrial development, giving a global recognition in Indian Industry. The present paper explores how the institution, employer, and government need to collaborate to make sure that the employability skill honed by the graduates of higher learning institutions match with the needs of the industry and its job requirements. The study aims to consider the place of skills in the universities to draw a suggested framework with an initiative that may be introduced to promote such skills for dynamic entrepreneurship.

Keywords

skills | skill development | entrepreneurship | smart India | higher education

Article Type: Research Article

PEDAGOGICAL RES, 2020, Volume 5, Issue 4, Article No: em0067

https://doi.org/10.29333/pr/8249

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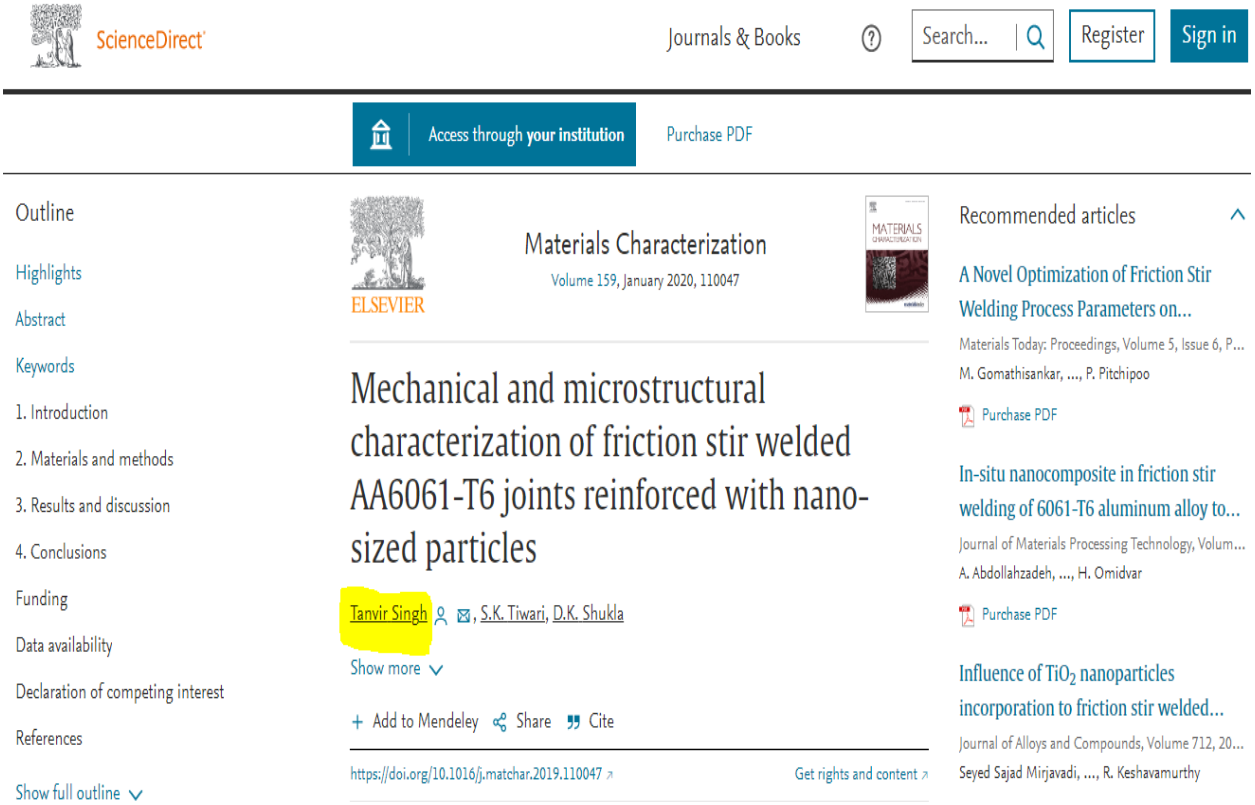

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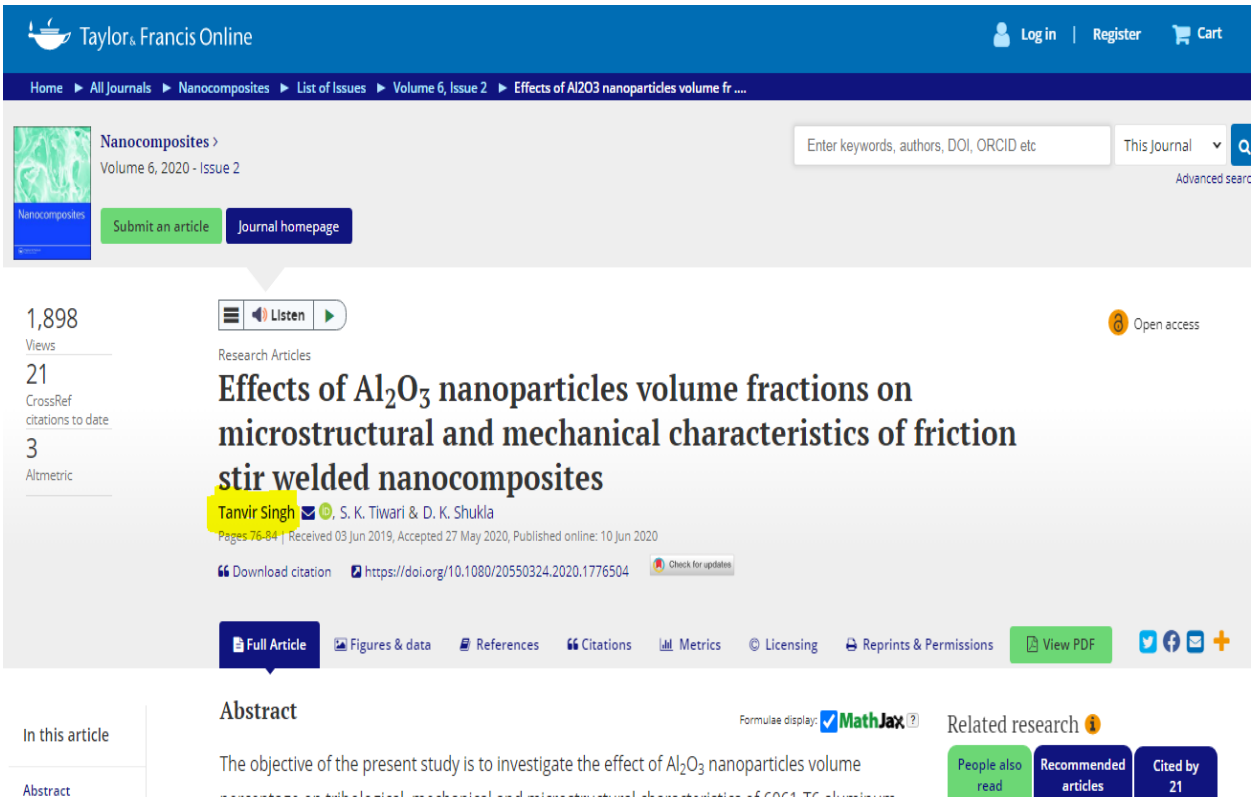
Name of the Journal: Nanocomposites



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Effects of Al_2O_3 nanoparticles volume fractions on microstructural and mechanical characteristics of friction stir welded nanocomposites

Tanvir Singh, S. K. Tiwari & D. K. Shukla

Pages 76-84 | Received 03 Jun 2019, Accepted 27 May 2020, Published online: 10 Jun 2020

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Name of the Journal: Materials Today: Proceedings

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Volume 26, Part 2, 2020, Pages 2853-2861

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Arpit Srivastava [a], Sanjeev Kumar Singh Yadav [b]

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Abstract

Electrochemical Spark Machining is a hybrid advance machining process of Electrochemical Machining and Electric discharge machining which can machine

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Conference Paper

An experimental framework to capture droplets expelled during various respiratory exhalations.

December 2020

DOI:10.14264/81fe65c

Conference: 22nd Australasian Fluid Mechanics Conference AFMC2020 · At: Brisbane, Australia

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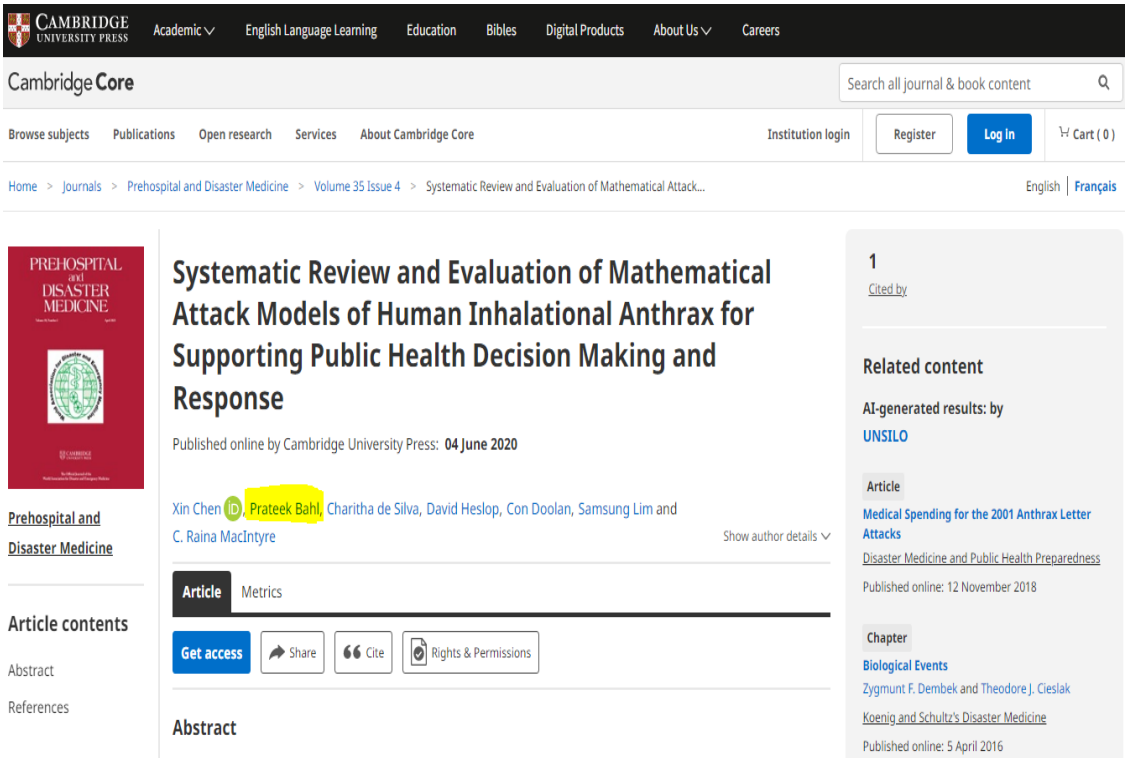

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Systematic Review and Evaluation of Mathematical Attack Models of Human Inhalational Anthrax for Supporting Public Health Decision Making and Response

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Experimental Investigation of Spout Deflection in a Rectangular Spouted Bed by the PIV Method

Yuanhe Yue, Shuai Wang, Prateek Bahl, Charitha de Silva, and Yansong Shen*

Cite this: *Ind. Eng. Chem. Res.* 2020, 59, 30, 13810−13819
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Abstract

Spout deflection is a common instability phenomenon, which has been widely encountered in spouted and spout-fluidized beds. However, the spout deflection has not been quantified experimentally. In the present work, the alternating spout deflection behavior is captured by employing the particle image velocimetry (PIV) method and quantified based on PIV vector fields over a wide range of variables in terms of bed heights and spouting velocities. The results show that the static bed height has an obvious effect on the alternating spout deflection. The amplitude of the

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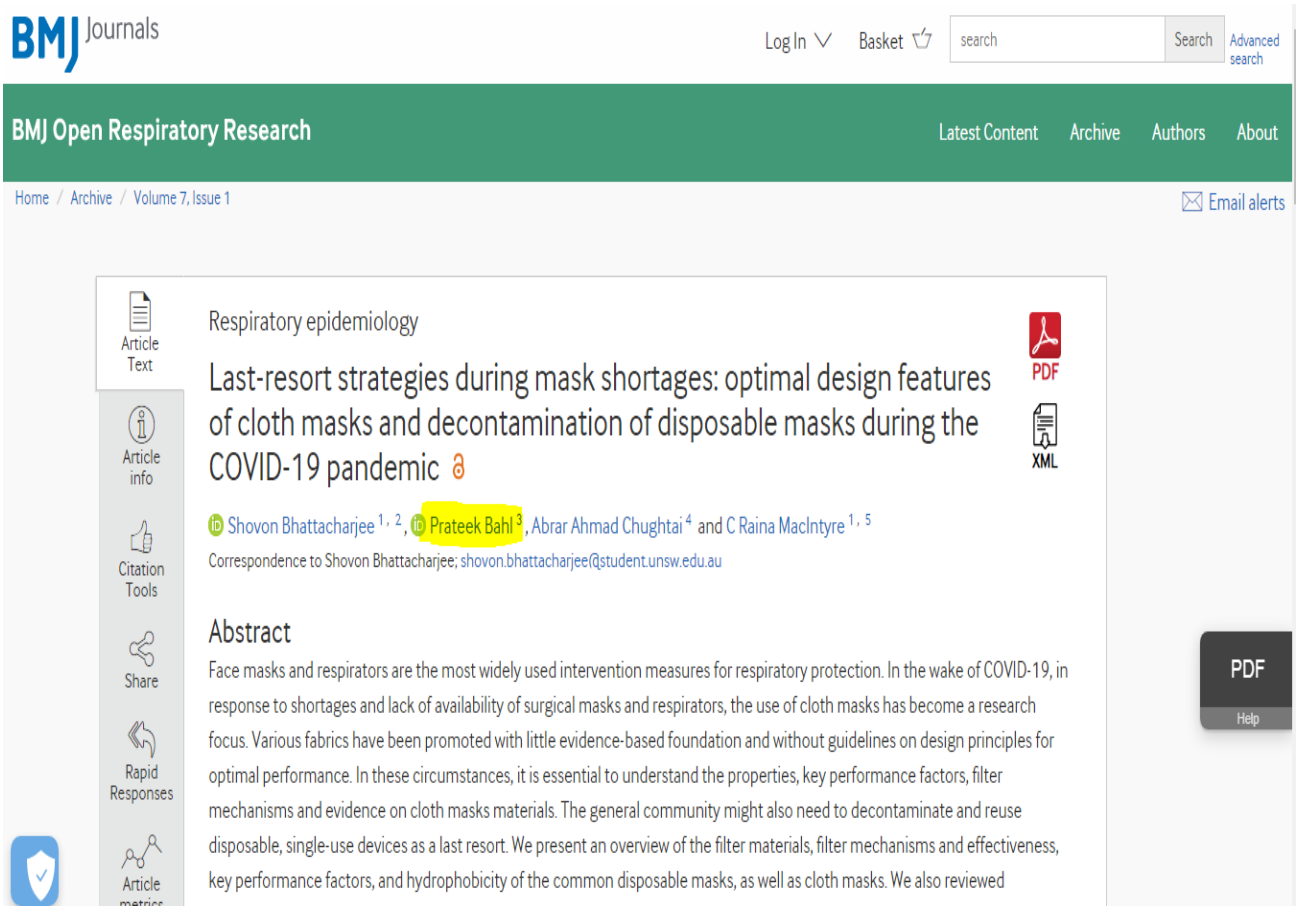

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Last-resort strategies during mask shortages: optimal design features of cloth masks and decontamination of disposable masks during the COVID-19 pandemic

Shovon Bhattacharjee [1, 2], Prateek Bahl [3], Abrar Ahmad Chughtai [4] and C Raina MacIntyre [1, 5]

Correspondence to Shovon Bhattacharjee; shovon.bhattacharjee@student.unsw.edu.au

Abstract

Face masks and respirators are the most widely used intervention measures for respiratory protection. In the wake of COVID-19, in response to shortages and lack of availability of surgical masks and respirators, the use of cloth masks has become a research focus. Various fabrics have been promoted with little evidence-based foundation and without guidelines on design principles for optimal performance. In these circumstances, it is essential to understand the properties, key performance factors, filter mechanisms and evidence on cloth masks materials. The general community might also need to decontaminate and reuse disposable, single-use devices as a last resort. We present an overview of the filter materials, filter mechanisms and effectiveness, key performance factors, and hydrophobicity of the common disposable masks, as well as cloth masks. We also reviewed

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Name of the Author: Ritesh EpariPatro

Name of the Journal: ISH journal of hydraulic engineering

ABSTRACT

Hydropower development on gravity-based drinking water supply pipelines in India has not been widely practiced, even at the micro-hydropower (MHP) scale. Site visits including measurements of pipeline flow and pressure were conducted at 12 schemes in Uttarakhand, and 3 were chosen for detailed analysis. Due to a complete lack of existing pressure control, the available drinking water

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Increasing temperature, reducing ice and intensifying cyclones are the most common symptoms of climate change. Increasing CO_2 concentration in the environment is very dangerous for mankind. So, it is very essential to decrease or minimize the CO_2 concentration. To combat this situation, biotechnology offers the best solution to decrease greenhouse gases

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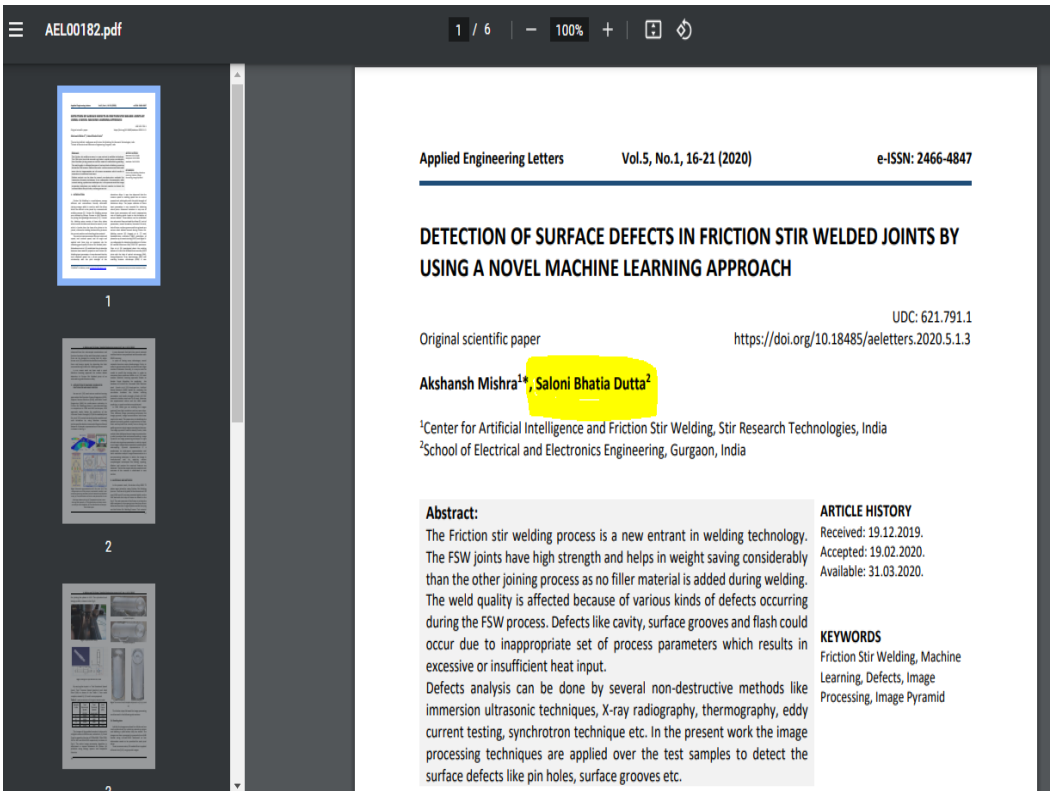
Name of the Author: Saloni Bhatia

Name of the Journal: Applied Engineering Letters



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DETECTION OF SURFACE DEFECTS IN FRICTION STIR WELDED JOINTS BY USING A NOVEL MACHINE LEARNING APPROACH

UDC: 621.791.1
Original scientific paper https://doi.org/10.18485/aeletters.2020.5.1.3

Akshansh Mishra[1]*, Saloni Bhatia Dutta[2]

[1]Center for Artificial Intelligence and Friction Stir Welding, Stir Research Technologies, India
[2]School of Electrical and Electronics Engineering, Gurgaon, India

Abstract:
The Friction stir welding process is a new entrant in welding technology. The FSW joints have high strength and helps in weight saving considerably than the other joining process as no filler material is added during welding. The weld quality is affected because of various kinds of defects occurring during the FSW process. Defects like cavity, surface grooves and flash could occur due to inappropriate set of process parameters which results in excessive or insufficient heat input.
Defects analysis can be done by several non-destructive methods like immersion ultrasonic techniques, X-ray radiography, thermography, eddy current testing, synchrotron technique etc. In the present work the image processing techniques are applied over the test samples to detect the surface defects like pin holes, surface grooves etc.

ARTICLE HISTORY
Received: 19.12.2019.
Accepted: 19.02.2020.
Available: 31.03.2020.

KEYWORDS
Friction Stir Welding, Machine Learning, Defects, Image Processing, Image Pyramid

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Deepika | Hukum Singh & N. S. Saxena

Pages 482-491 | Received 24 Aug 2019, Accepted 08 Oct 2019, Published online: 04 Nov 2019

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ABSTRACT

Amorphous samples of $Se_{58}Ge_{27}Pb_{15}$ and $Se_{58}Ge_{24}Pb_{18}$ glasses were prepared using the melt quenching method. Thin films of samples were deposited using the vacuum evaporation method. These films were illuminated with Nd: YAG 532 nm green laser radiation. The samples were

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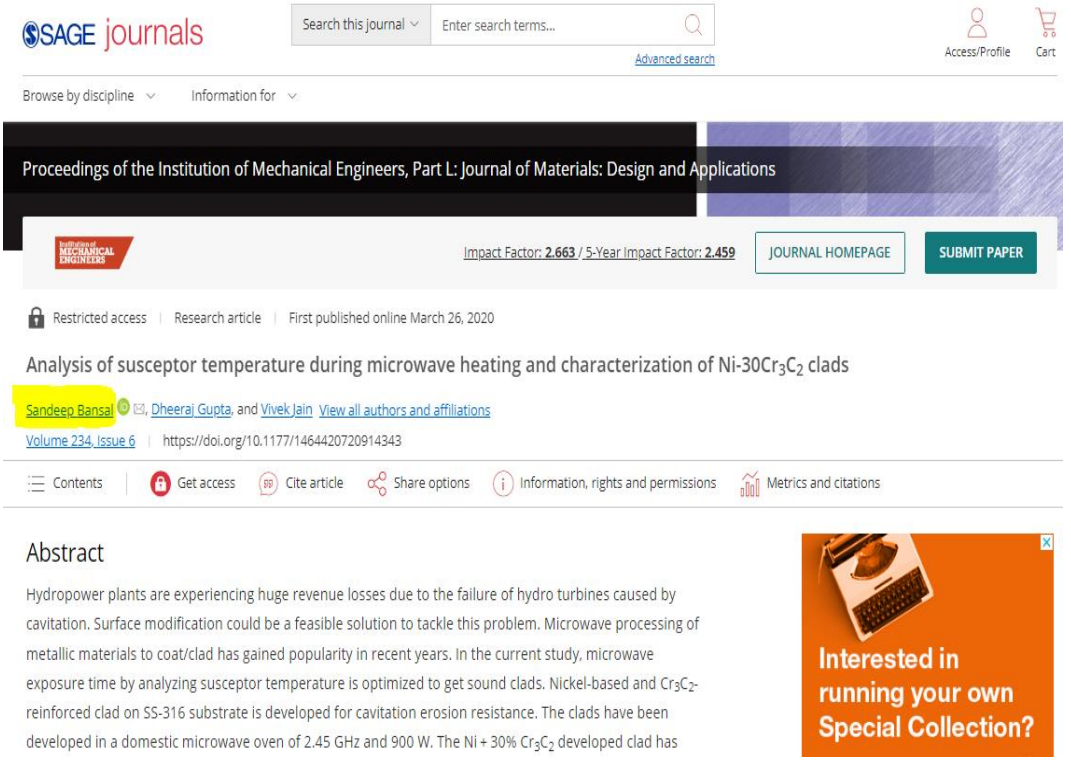

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Analysis of susceptor temperature during microwave heating and characterization of Ni-30Cr_3C_2 clads

Sandeep Bansal, Dheeraj Gupta, and Vivek Jain View all authors and affiliations

Volume 234, Issue 6 | https://doi.org/10.1177/1464420720914343

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Abstract

Hydropower plants are experiencing huge revenue losses due to the failure of hydro turbines caused by cavitation. Surface modification could be a feasible solution to tackle this problem. Microwave processing of metallic materials to coat/clad has gained popularity in recent years. In the current study, microwave exposure time by analyzing susceptor temperature is optimized to get sound clads. Nickel-based and Cr_3C_2-reinforced clad on SS-316 substrate is developed for cavitation erosion resistance. The clads have been developed in a domestic microwave oven of 2.45 GHz and 900 W. The Ni + 30% Cr_3C_2 developed clad has

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Volume 33, Part 3, 2020, Pages 1558-1561

Potential applications of three-dimensional printing for anatomical simulations and surgical planning

Atul Babbar [a], Ankit Sharma [b], Sandeep Bansal [a], Jonty Mago [a], Varinder Toor [a]

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Name of the Author: Sandeep Bansal

Name of the Journal: Metallurgical and Materials Transactions A

Published: 25 May 2020

Investigation of Microwave Processing Parameters on Development of Ni-40Cr_3C_2 Composite Clad and Their Characterization

Jonty Mago, Sandeep Bansal, Dheeraj Gupta & Vivek Jain

Metallurgical and Materials Transactions A **51**, 4288–4300 (2020) | Cite this article

Abstract

The chromium carbide (Cr_3C_2)-reinforced Ni-based composite clad on austenitic stainless steel (SS-316) substrate was successfully developed by the microwave cladding route after optimizing process parameters (Power: 900 Watt, Exposure Time: 380 seconds). Clads were developed at 2.45 GHz frequency in a domestic microwave oven. The developed composite clad has been examined for metallurgical and mechanical properties. The investigation was carried out by using scanning electron microscopy (SEM) equipped with a backscatter electron

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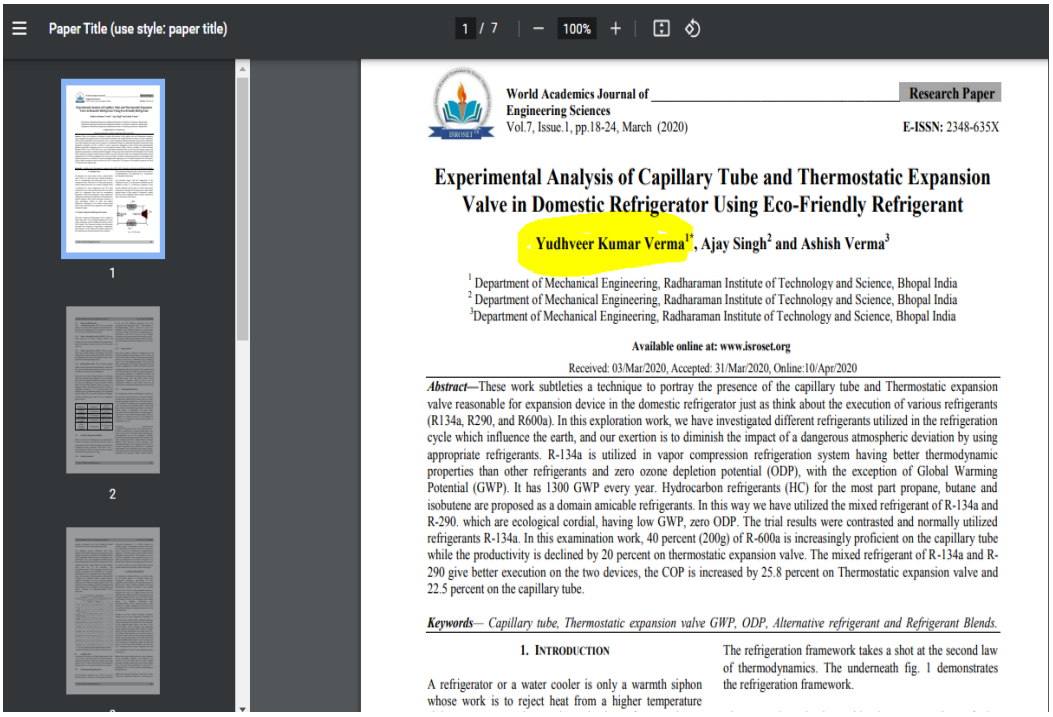
Title of the Paper: Experimental Analysis of Capillary Tube and Thermostatic Expansion Valve in Domestic Refrigerator Using Eco-Friendly Refrigerant

Name of the Author: Yudhveer Kumar Verma

Name of the Journal: World Academics Journal of Engineering Sciences



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Experimental Analysis of Capillary Tube and Thermostatic Expansion Valve in Domestic Refrigerator Using Eco-Friendly Refrigerant

Yudhveer Kumar Verma[1*], Ajay Singh[2] and Ashish Verma[3]

[1] Department of Mechanical Engineering, Radharaman Institute of Technology and Science, Bhopal India
[2] Department of Mechanical Engineering, Radharaman Institute of Technology and Science, Bhopal India
[3]Department of Mechanical Engineering, Radharaman Institute of Technology and Science, Bhopal India

Available online at: www.isroset.org

Received: 03/Mar/2020, Accepted: 31/Mar/2020, Online:10/Apr/2020

***Abstract*—**These work subtleties a technique to portray the presence of the capillary tube and Thermostatic expansion valve reasonable for expansion device in the domestic refrigerator just as think about the execution of various refrigerants (R134a, R290, and R600a). In this exploration work, we have investigated different refrigerants utilized in the refrigeration cycle which influence the earth, and our exertion is to diminish the impact of a dangerous atmospheric deviation by using appropriate refrigerants. R-134a is utilized in vapor compression refrigeration system having better thermodynamic properties than other refrigerants and zero ozone depletion potential (ODP), with the exception of Global Warming Potential (GWP). It has 1300 GWP every year. Hydrocarbon refrigerants (HC) for the most part propane, butane and isobutene are proposed as a domain amicable refrigerants. In this way we have utilized the mixed refrigerant of R-134a and R-290. which are ecological cordial, having low GWP, zero ODP. The trial results were contrasted and normally utilized refrigerants R-134a. In this examination work, 40 percent (200g) of R-600a is increasingly proficient on the capillary tube while the productivity is declined by 20 percent on thermostatic expansion valve. The mixed refrigerant of R-134a and R-290 give better execution on the two devices, the COP is increased by 25.8 percent on Thermostatic expansion valve and 22.5 percent on the capillary tube.

***Keywords*—** *Capillary tube, Thermostatic expansion valve GWP, ODP, Alternative refrigerant and Refrigerant Blends.*

1. INTRODUCTION

A refrigerator or a water cooler is only a warmth siphon whose work is to reject heat from a higher temperature

The refrigeration framework takes a shot at the second law of thermodynamics. The underneath fig. 1 demonstrates the refrigeration framework.

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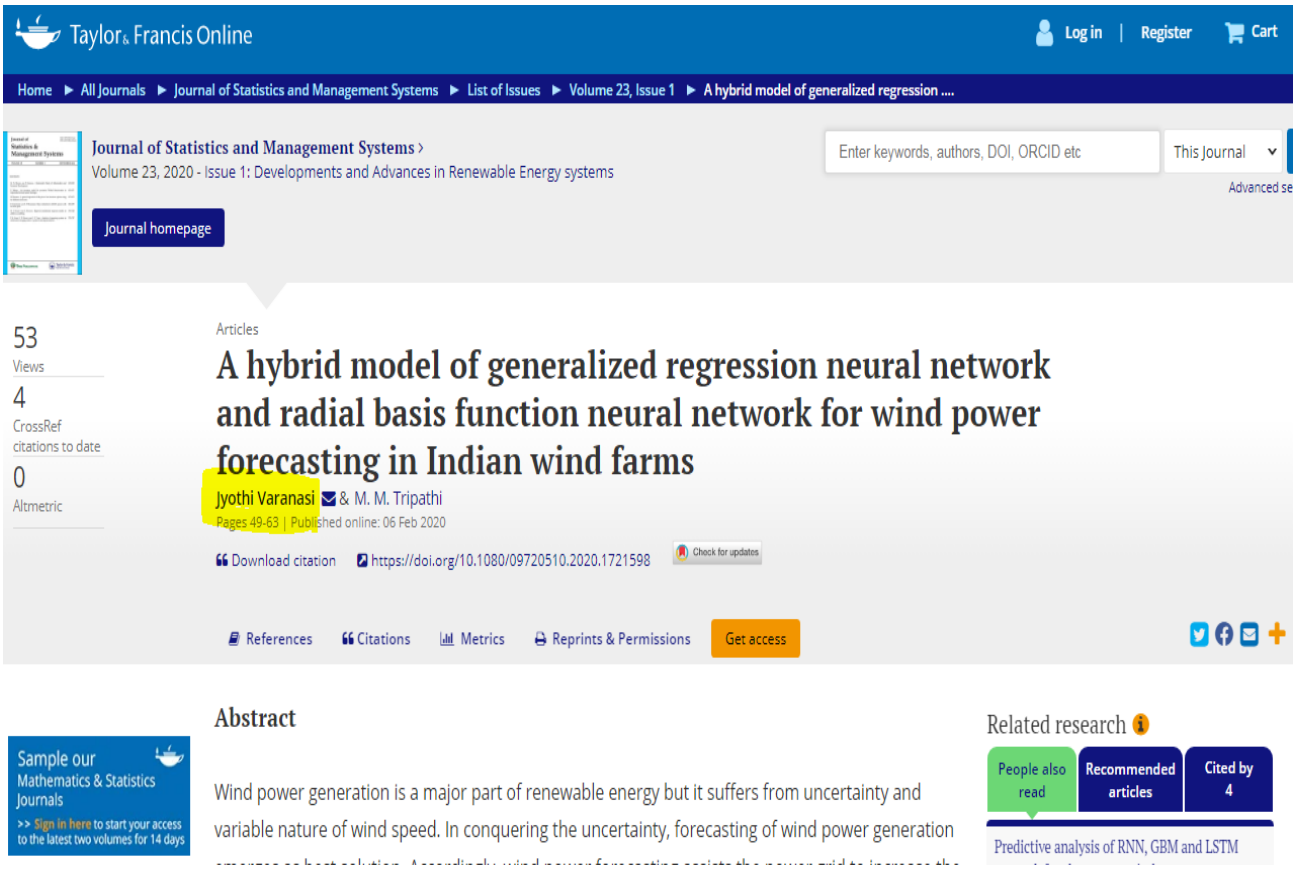
Name of the Journal: Journal of Statistics and Management Systems



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Title of the Paper: Forecasting the probability of solar power output using logistic regression algorithm

Name of the Author: Dr. JYOTHI VARANASI

Name of the Journal: Journal of Statistics and Management Systems

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Articles

Forecasting the probability of solar power output using logistic regression algorithm

V. Jagadeesh, K. Venkata Subbaiah & Jyothi Varanasi

Pages 1-16 | Published online: 06 Feb 2020

Download citation | https://doi.org/10.1080/09720510.2020.1714146

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Abstract

Now days, Natural resources are depleting due to rapid urbanization and increasing demand of energy requirement. Hence, Renewable energy plays a vital role in sustainable development. The role and selection of solar variables and applying machine learning algorithm plays a vital role for forecasting the probability of solar power output for any selected day in the future. This article

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Title of the Paper: A Review on Obstacle Avoidance Techniques for Self-Driving Vehicle

Name of the Author: Dr. ISHA MALHOTRA

Name of the Journal: International Journal of Advanced Science and Technology

A Review on Obstacle Avoidance Techniques for Self-Driving Vehicle

January 2020

Authors:

Sanjyoti Jain
Dronacharya College of Engineering

Isha Malhotra
Dronacharya College of Engineering

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Abstract and Figures

Automation of the obstacle avoidance is observed to be a potential challenges in the growth of self-driving vehicles (SDVs). For obstacle avoidance data is received from high resolution camera and highly precise sensors. Considering the available data, different Obstacle avoidance methods have been implemented to self-driving on complicated surroundings. On the basis of received data the vehicle is instructed to avoid obstacle considering the size of obstacle. This paper reviewed the

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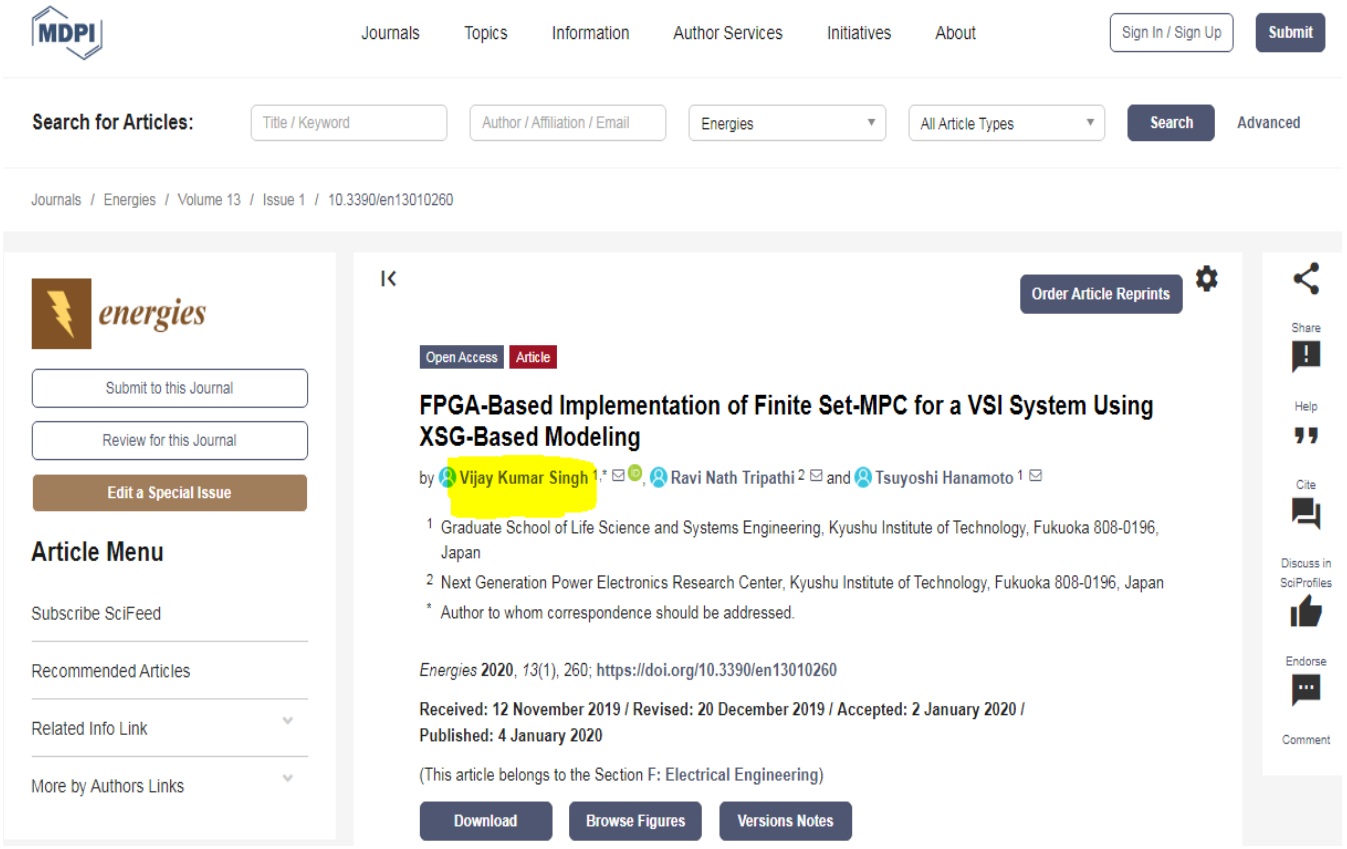
Title of the Paper: FPGA-Based Implementation of Finite Set-MPC for a VSI System Using XSG-Based Modeling

Name of the Author: Vijay Kumar Singh

Name of the Journal: Energies



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Title of the Paper: Implementation Strategy for Resource Optimization of FPGA-Based Adaptive Finite Control Set-MPC using XSG for a VSI System

Name of the Author: Vijay Kumar Singh

Name of the Journal: IEEE Journal of Emerging and Selected Topics in Power Electronics

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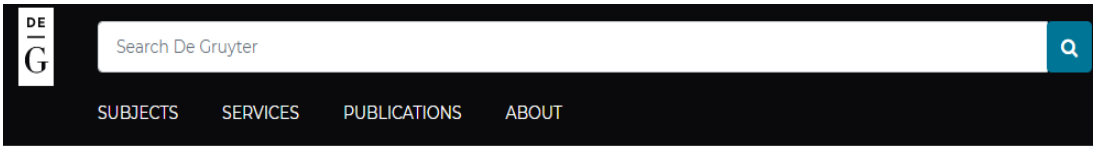
Title of the Paper: Database Creation and Dialect Wise Comparative Analysis of Prosodic Features for Punjabi Language

Name of the Author: Dr. Shipra Arora

Name of the Journal: Journal of Intelligent Systems



Open Access Published by De Gruyter March 19, 2019

Database Creation and Dialect-Wise Comparative Analysis of Prosodic Features for Punjabi Language

Shipra J. Arora and Rishipal Singh

From the journal Journal of Intelligent Systems
https://doi.org/10.1515/jisys-2019-2511

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Abstract

The paper represents a Punjabi corpus in the agriculture domain. There are various dialects in the Punjabi language and the main concentration is on major dialects, i.e. Majhi, Malwai and Doabi for the present study. A speech corpus of 125 isolated words is taken into consideration. These words are uttered by 100 speakers, i.e. 60 Malwi dialect speakers (30 male and 30 female), 20 Majhi dialect speakers (10 male and 10 female) and 20 Doabi dialect speakers (10 male and 10 female). Tonemes, adhak (geminated) and nasal words are selected from the corpus. Recordings have been processed through two mediums. The paper also

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Title of the Paper: RELIABILITY MEASURES OF A 1-OUT-OF-2 SYSTEM WITH STANDBY AND DELAYED SERVICE

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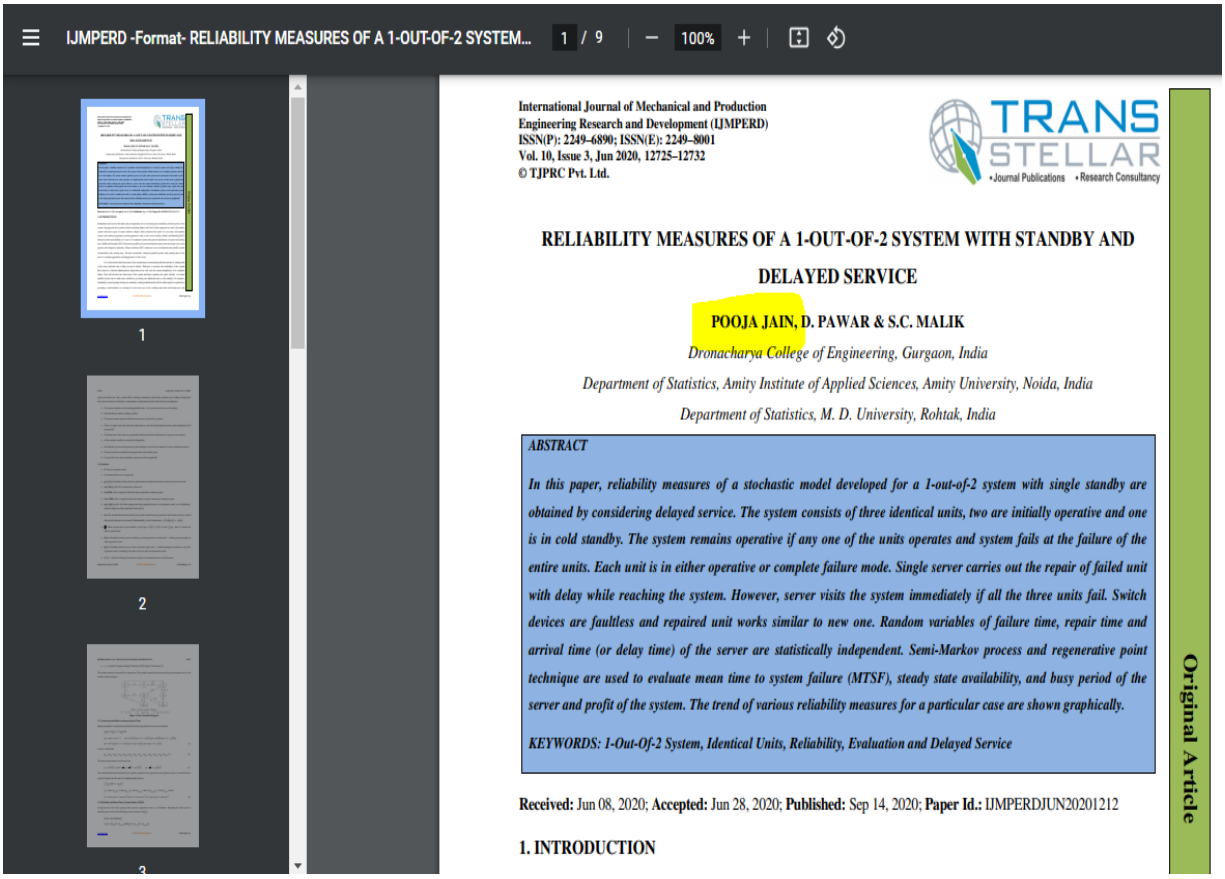
Name of the Journal: International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)



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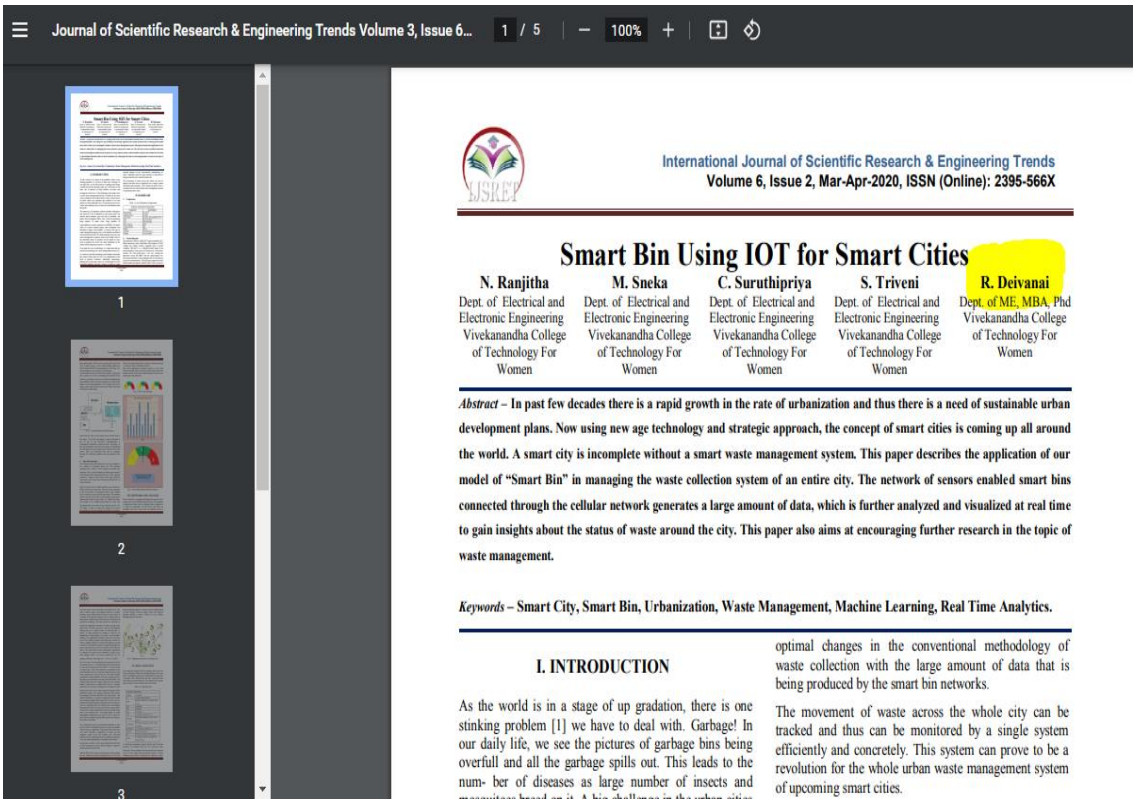
Name of the Author: Dr. RADHAKRISHNAN DHEIVANAI

Name of the Journal: International Journal of Scientific Research and Engineering Trends



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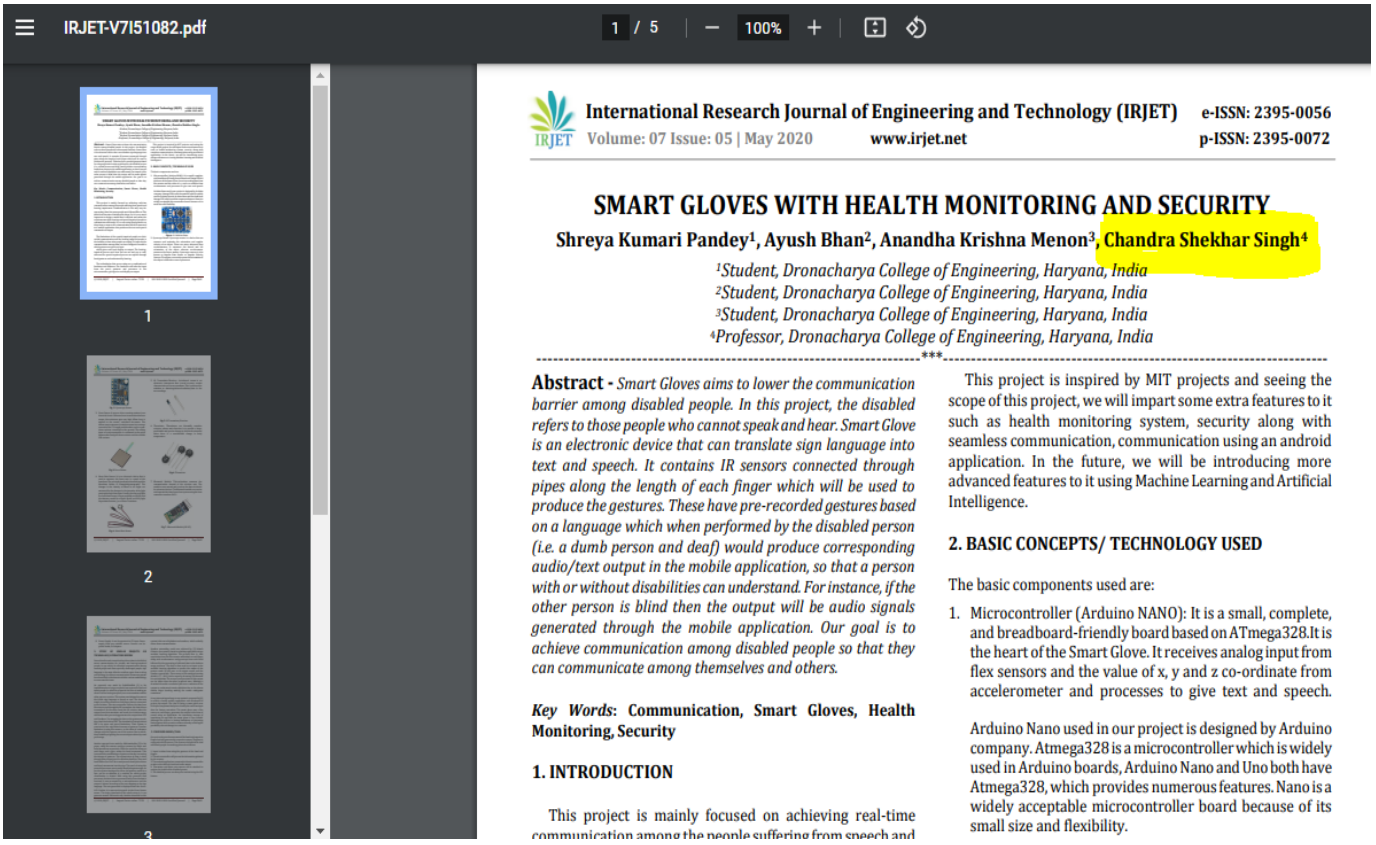
Title of the Paper: SMART GLOVES WITH HEALTH MONITORING AND SECURITY

Name of the Author: Chandra Shekhar Singh

Name of the Journal: International Research Journal of Engineering and Technology (IRJET)



International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 07 Issue: 05 | May 2020 www.irjet.net p-ISSN: 2395-0072

SMART GLOVES WITH HEALTH MONITORING AND SECURITY

Shreya Kumari Pandey[1], Ayush Bhan[2], Anandha Krishna Menon[3], Chandra Shekhar Singh[4]

[1]*Student, Dronacharya College of Engineering, Haryana, India*
[2]*Student, Dronacharya College of Engineering, Haryana, India*
[3]*Student, Dronacharya College of Engineering, Haryana, India*
[4]*Professor, Dronacharya College of Engineering, Haryana, India*

Abstract - *Smart Gloves aims to lower the communication barrier among disabled people. In this project, the disabled refers to those people who cannot speak and hear. Smart Glove is an electronic device that can translate sign language into text and speech. It contains IR sensors connected through pipes along the length of each finger which will be used to produce the gestures. These have pre-recorded gestures based on a language which when performed by the disabled person (i.e. a dumb person and deaf) would produce corresponding audio/text output in the mobile application, so that a person with or without disabilities can understand. For instance, if the other person is blind then the output will be audio signals generated through the mobile application. Our goal is to achieve communication among disabled people so that they can communicate among themselves and others.*

***Key Words*: Communication, Smart Gloves, Health Monitoring, Security**

1. INTRODUCTION

This project is mainly focused on achieving real-time communication among the people suffering from speech and

This project is inspired by MIT projects and seeing the scope of this project, we will impart some extra features to it such as health monitoring system, security along with seamless communication, communication using an android application. In the future, we will be introducing more advanced features to it using Machine Learning and Artificial Intelligence.

2. BASIC CONCEPTS/ TECHNOLOGY USED

The basic components used are:

1. Microcontroller (Arduino NANO): It is a small, complete, and breadboard-friendly board based on ATmega328.It is the heart of the Smart Glove. It receives analog input from flex sensors and the value of x, y and z co-ordinate from accelerometer and processes to give text and speech.

   Arduino Nano used in our project is designed by Arduino company. Atmega328 is a microcontroller which is widely used in Arduino boards, Arduino Nano and Uno both have Atmega328, which provides numerous features. Nano is a widely acceptable microcontroller board because of its small size and flexibility.

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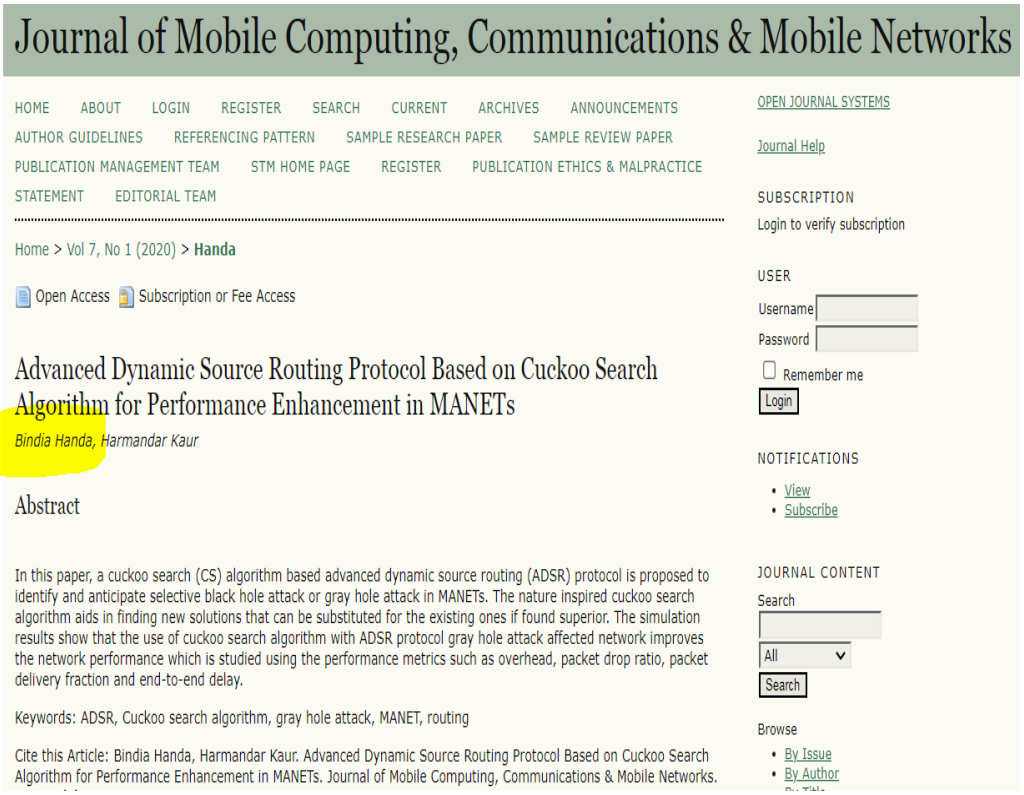
Title of the Paper: Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs

Name of the Author: Bindia Handa

Name of the Journal: Journal of Mobile Computing, Communications & Mobile Networks



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Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs

Bindia Handa, Harmandar Kaur

Abstract

In this paper, a cuckoo search (CS) algorithm based advanced dynamic source routing (ADSR) protocol is proposed to identify and anticipate selective black hole attack or gray hole attack in MANETs. The nature inspired cuckoo search algorithm aids in finding new solutions that can be substituted for the existing ones if found superior. The simulation results show that the use of cuckoo search algorithm with ADSR protocol gray hole attack affected network improves the network performance which is studied using the performance metrics such as overhead, packet drop ratio, packet delivery fraction and end-to-end delay.

Keywords: ADSR, Cuckoo search algorithm, gray hole attack, MANET, routing

Cite this Article: Bindia Handa, Harmandar Kaur. Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs. Journal of Mobile Computing, Communications & Mobile Networks.

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Title of the Paper: Design of highly directive lens-less photoconductive dipole antenna array with frequency selective surface for terahertz imaging applications

Name of the Author: Dr. ISHA MALHOTRA

Name of the Journal: Optik - International Journal for Light and Electron Optics

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Volume 173, November 2018, Pages 206-219

Original research article

Design of highly directive lens-less photoconductive dipole antenna array with frequency selective surface for terahertz imaging applications

Isha Malhotra [a], Kumud Ranjan Jha [b], Ghyansham Singh [a]

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Title of the Paper: Design of highly directive terahertz photoconductive dipole antenna using frequency-selective surface for sensing and imaging applications

Name of the Author: Dr. ISHA MALHOTRA

Name of the Journal: Journal of Computational Electronics

Published: 24 July 2018

Design of highly directive terahertz photoconductive dipole antenna using frequency-selective surface for sensing and imaging applications

Isha Malhotra, Kumud Ranjan Jha & G. Singh

Journal of Computational Electronics **17**, 1721–1740 (2018) | Cite this article

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Abstract

The prospects for improving the gain and directivity of a photoconductive dipole antenna (PCA) using a bandpass frequency-selective surface (FSS) as a superstrate at terahertz frequencies for imaging and sensing applications are presented. The physical parameters of the proposed bandpass FSS for the PCA are determined using a simple synthesis technique based on a single square loop bandpass FSS. Furthermore, the effect of the unit-cell periodicity of the FSS on the resonance condition of the antenna structure is studied, and its effect on the gain, directivity, and front-to-back lobe ratio of the proposed antenna is also presented.

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Title of the Paper: Hydropower Future: Between Climate Change, Renewable Deployment, Carbon and Fuel Prices

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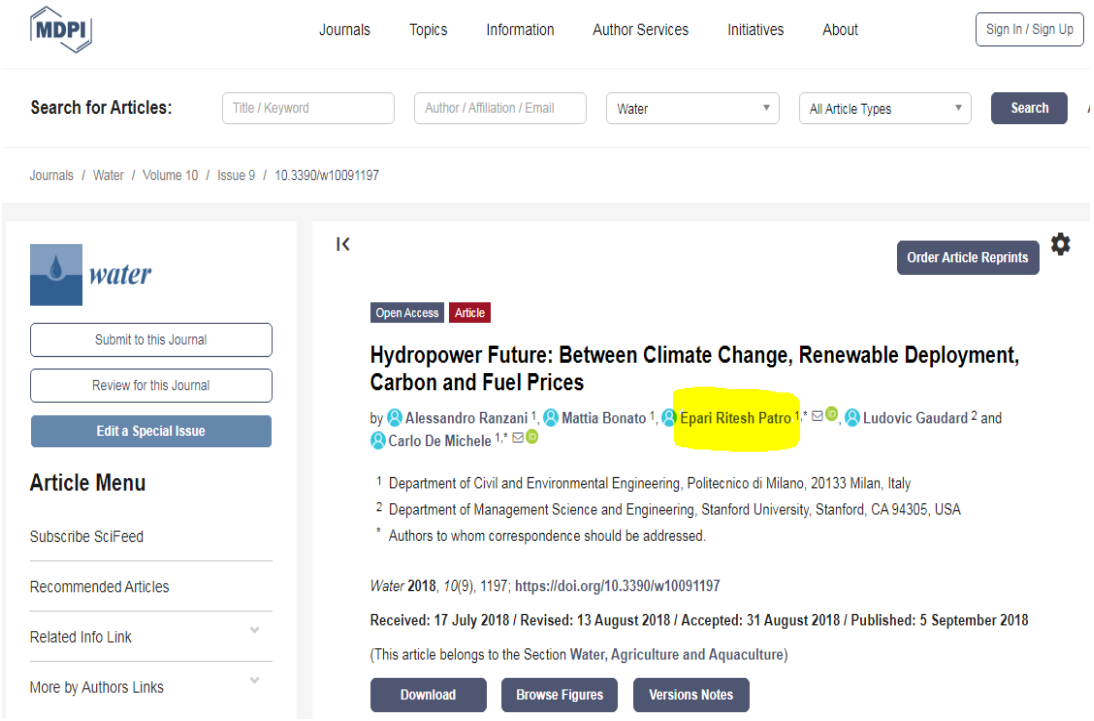
Name of the Journal: Water



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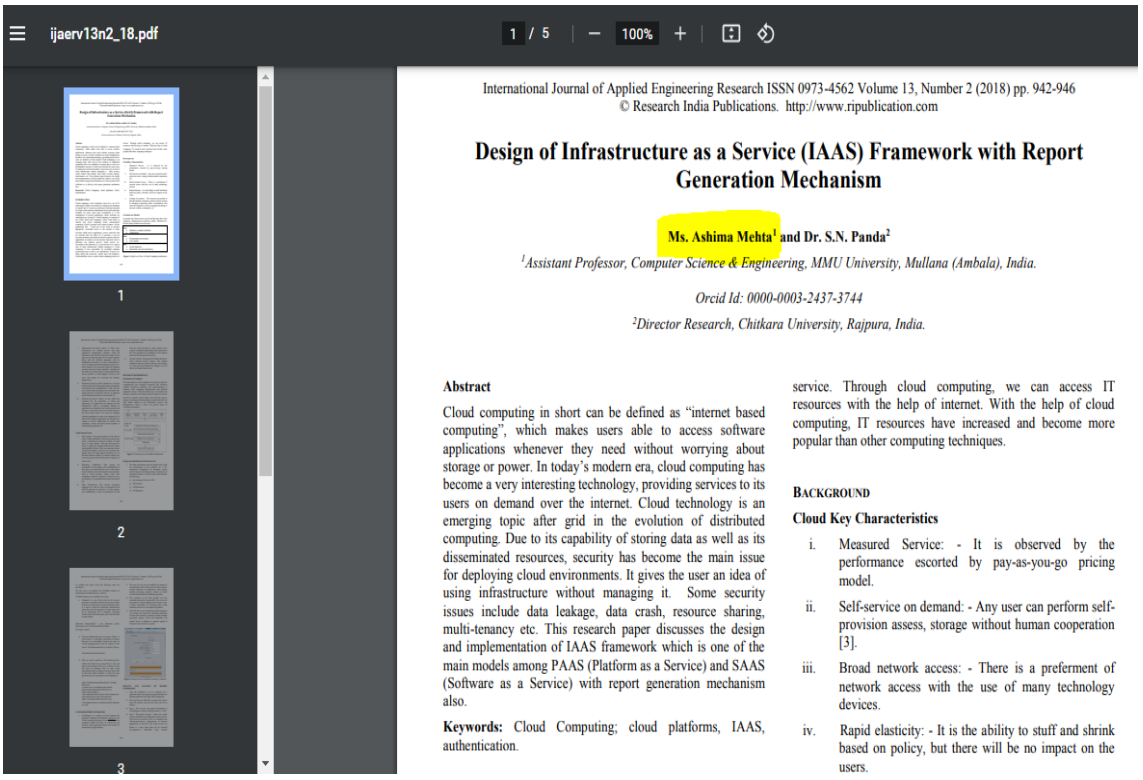
Title of the Paper: Design of Infrastructure as a Service (IAAS) Framework with Report Generation Mechanism

Name of the Author: Ashima Mehta

Name of the Journal: International Journal of Applied Engineering Research



International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 2 (2018) pp. 942-946

Design of Infrastructure as a Service (IAAS) Framework with Report Generation Mechanism

Ms. Ashima Mehta[1] and Dr. S.N. Panda[2]

[1]*Assistant Professor, Computer Science & Engineering, MMU University, Mullana (Ambala), India.*

Orcid Id: 0000-0003-2437-3744

[2]*Director Research, Chitkara University, Rajpura, India.*

Abstract

Cloud computing in short can be defined as "internet based computing", which makes users able to access software applications whenever they need without worrying about storage or power. In today's modern era, cloud computing has become a very interesting technology, providing services to its users on demand over the internet. Cloud technology is an emerging topic after grid in the evolution of distributed computing. Due to its capability of storing data as well as its disseminated resources, security has become the main issue for deploying cloud environments. It gives the user an idea of using infrastructure without managing it. Some security issues include data leakage, data crash, resource sharing, multi-tenancy etc. This research paper discusses the design and implementation of IAAS framework which is one of the main models among PAAS (Platform as a Service) and SAAS (Software as a Service) with report generation mechanism also.

Keywords: Cloud Computing; cloud platforms, IAAS, authentication.

service. Through cloud computing, we can access IT resources with the help of internet. With the help of cloud computing, IT resources have increased and become more popular than other computing techniques.

BACKGROUND

Cloud Key Characteristics

i. Measured Service: - It is observed by the performance escorted by pay-as-you-go pricing model.

ii. Self-service on demand: - Any user can perform self-provision assess, storage without human cooperation [3].

iii. Broad network access: - There is a preferment of network access with the use of many technology devices.

iv. Rapid elasticity: - It is the ability to stuff and shrink based on policy, but there will be no impact on the users.

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Title of the Paper: Optical characterization of nanostructured Ge1 − xSnxSe2.5 (x = 0, 0.3, 0.5) films

Name of the Author: Deepika

Name of the Journal: Optical and Quantum Electronics

Published: 10 December 2018

Optical characterization of nanostructured $Ge_{1-x}Sn_xSe_{2.5}$ (x = 0, 0.3, 0.5) films

Deepika, H. Singh & N. S. Saxena

Optical and Quantum Electronics **51**, Article number: 11 (2019) | Cite this article

Abstract

The paper reports the optical properties of thin films of nanostructured $Ge_{1-x}Sn_xSe_{2.5}$ (x = 0, 0.3, 0.5) glassy alloys. The glassy alloys of $Ge_{1-x}Sn_xSe_{2.5}$ (x = 0, 0.3, 0.5) were prepared using melt quenching method. Thin films of nanostructured $Ge_{1-x}Sn_xSe_{2.5}$ (x = 0, 0.3, 0.5) glassy alloys were prepared using physical vapor deposition method. The films were characterized using XRD, EDX and TEM, which confirmed the amorphous nature, composition and formation of nanorods in the samples. Absorption and transmission spectra of thin films were recorded in the spectral range 400–2500 nm to obtain energy band gap, refractive index, extinction coefficient, dielectric constant etc. Results show that refractive index increases while band gap decreases on increase of Sn content in the Ge–Se system. This is due to the

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Title of the Paper: Study of Hopping Conduction in Mn Doped CdS Nanoparticles

Name of the Author: Deepika

Name of the Journal: Materials Focus

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DOI: https://doi.org/10.1166/mat.2018.1556

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Abstract | References | Citations | Supplementary Data | Suggestions

The present paper reports the electrical properties of pure CdS and Mn doped CdS nanoparticle samples. The samples were prepared using chemical precipitation method and were characterized using XRD, TEM and EDXA. Structural characterization indicates nanoparticle formation in samples. DC conductivity measurements were carried out at room as well as elevated temperatures. Results show that conduction in samples takes place via variable range hopping and thus samples follow Mott's three dimensional variable range hopping (3D VRH) model. Further, it was found that conductivity increases on increase of Mn concentration in CdS matrix.

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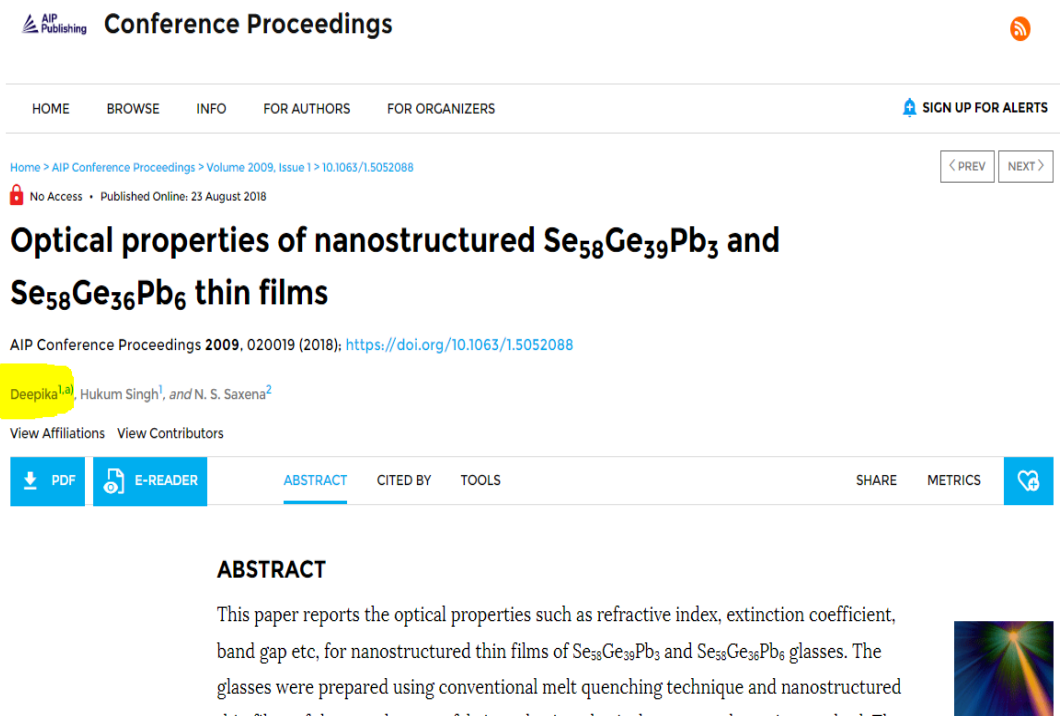
Title of the Paper: Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films

Name of the Author: Deepika

Name of the Journal: AIP Conference Proceedings



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Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films

AIP Conference Proceedings **2009**, 020019 (2018); https://doi.org/10.1063/1.5052088

Deepika[1,a], Hukum Singh[1], *and* N. S. Saxena[2]

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ABSTRACT

This paper reports the optical properties such as refractive index, extinction coefficient, band gap etc, for nanostructured thin films of $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ glasses. The glasses were prepared using conventional melt quenching technique and nanostructured

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Title of the Paper: Electrical properties of Se80-xTe20Sbx (0 ≤ x ≤ 12) nanorods

Name of the Author: Deepika

Name of the Journal: Materials Research Express

Materials Research Express

PAPER

Electrical properties of $Se_{80-x}Te_{20}Sb_x$ ($0 \le x \le 12$) nanorods

Deepika[1] and Hukum Singh[1]

Published 17 August 2018 • © 2018 IOP Publishing Ltd
Materials Research Express, Volume 5, Number 9
Citation Deepika and Hukum Singh 2018 *Mater. Res. Express* 5 095026
DOI 10.1088/2053-1591/aad85c

Abstract

The present study reports the electrical properties of $Se_{80-x}Te_{20}Sb_x$ ($0 \le x \le 12$) nanorods as a function of temperature and composition. The amorphous bulk powder of $Se_{80-x}Te_{20}Sb_x$ ($0 \le x \le 12$) glasses were prepared using melt quenching method and the nanostructured thin films were prepared using

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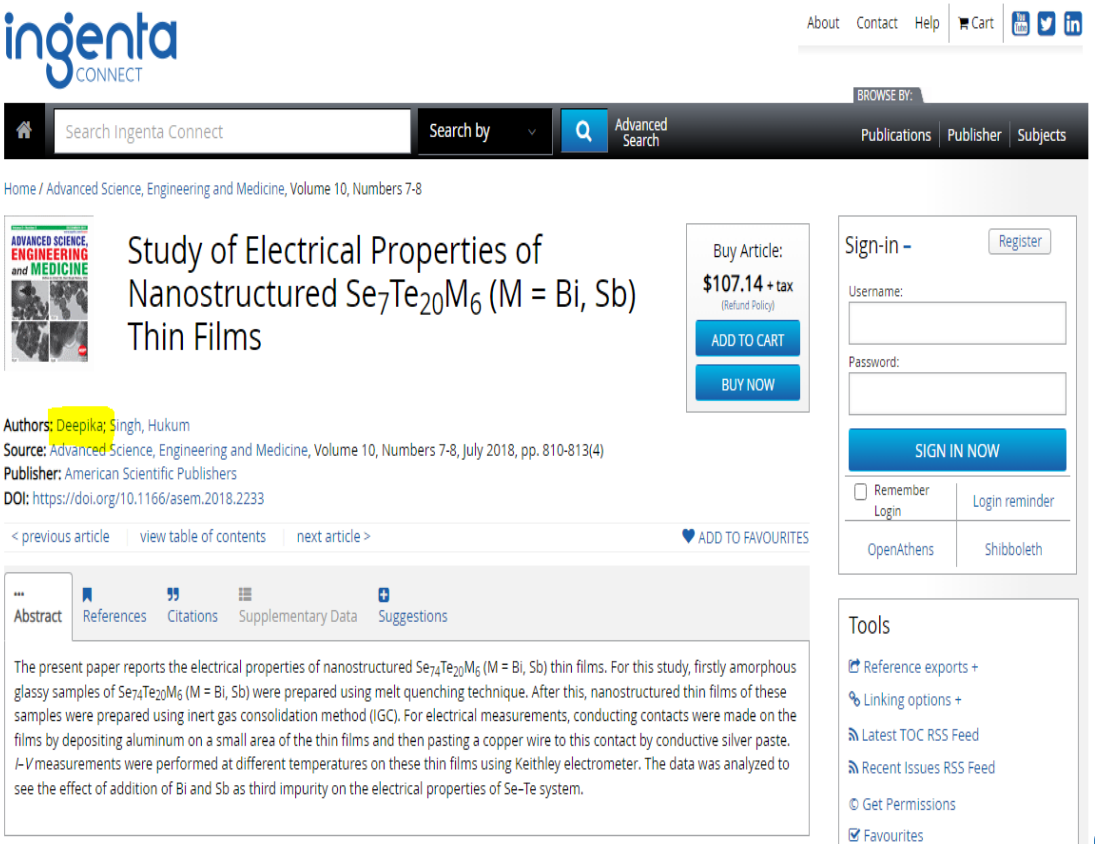
Title of the Paper: Study of Electrical Properties of Nanostructured Se7Te20M6 (M = Bi, Sb) Thin Films

Name of the Author: Deepika

Name of the Journal: Advanced Science, Engineering and Medicine (ASEM)



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DOI: https://doi.org/10.1166/asem.2018.2233

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Abstract | References | Citations | Supplementary Data | Suggestions

The present paper reports the electrical properties of nanostructured $Se_{74}Te_{20}M_6$ (M = Bi, Sb) thin films. For this study, firstly amorphous glassy samples of $Se_{74}Te_{20}M_6$ (M = Bi, Sb) were prepared using melt quenching technique. After this, nanostructured thin films of these samples were prepared using inert gas consolidation method (IGC). For electrical measurements, conducting contacts were made on the films by depositing aluminum on a small area of the thin films and then pasting a copper wire to this contact by conductive silver paste. *I–V* measurements were performed at different temperatures on these thin films using Keithley electrometer. The data was analyzed to see the effect of addition of Bi and Sb as third impurity on the electrical properties of Se–Te system.

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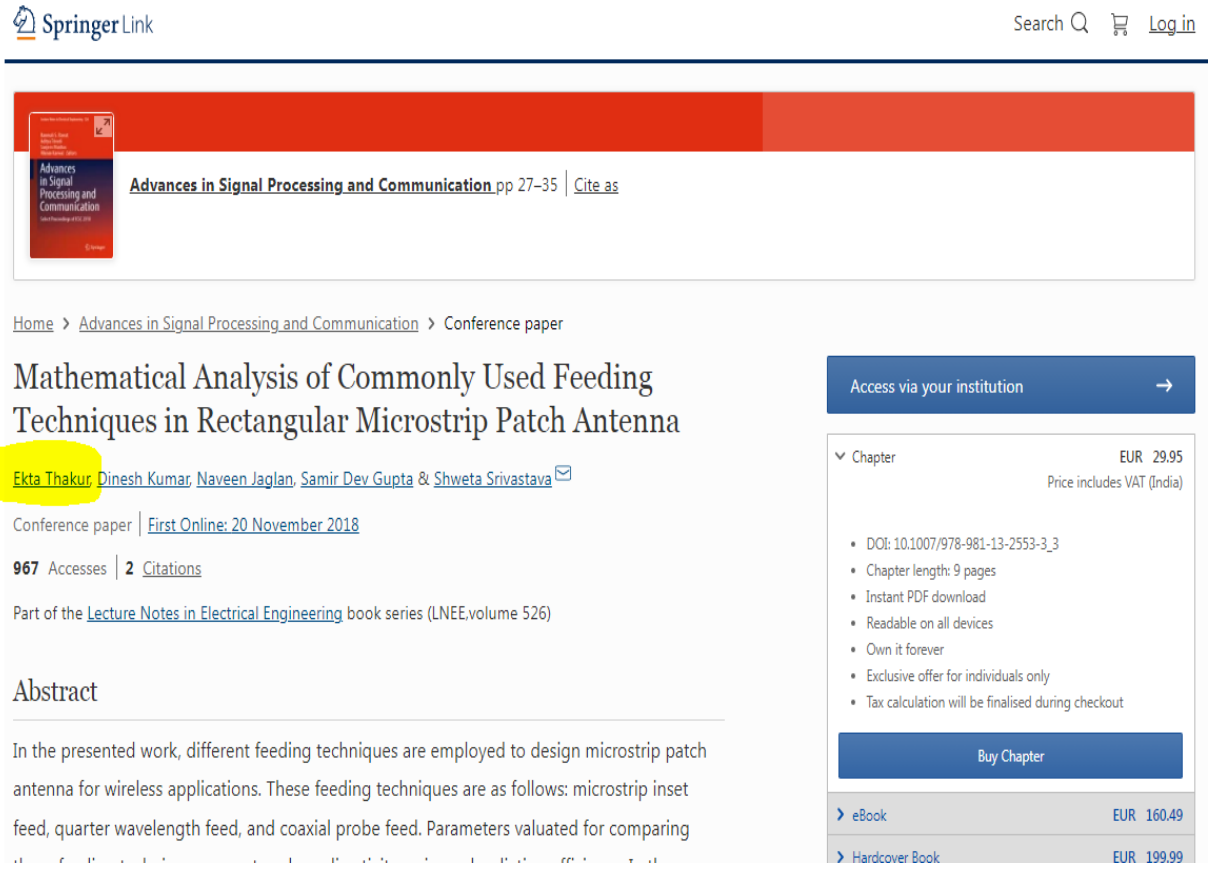
Title of the Paper: Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna

Name of the Author: Dr. Ekta Thakur

Name of the Journal: Lecture Notes in Electrical Engineering (LNEE)



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Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna

Ekta Thakur, Dinesh Kumar, Naveen Jaglan, Samir Dev Gupta & Shweta Srivastava

Conference paper | First Online: 20 November 2018

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Part of the Lecture Notes in Electrical Engineering book series (LNEE,volume 526)

Abstract

In the presented work, different feeding techniques are employed to design microstrip patch antenna for wireless applications. These feeding techniques are as follows: microstrip inset feed, quarter wavelength feed, and coaxial probe feed. Parameters valuated for comparing

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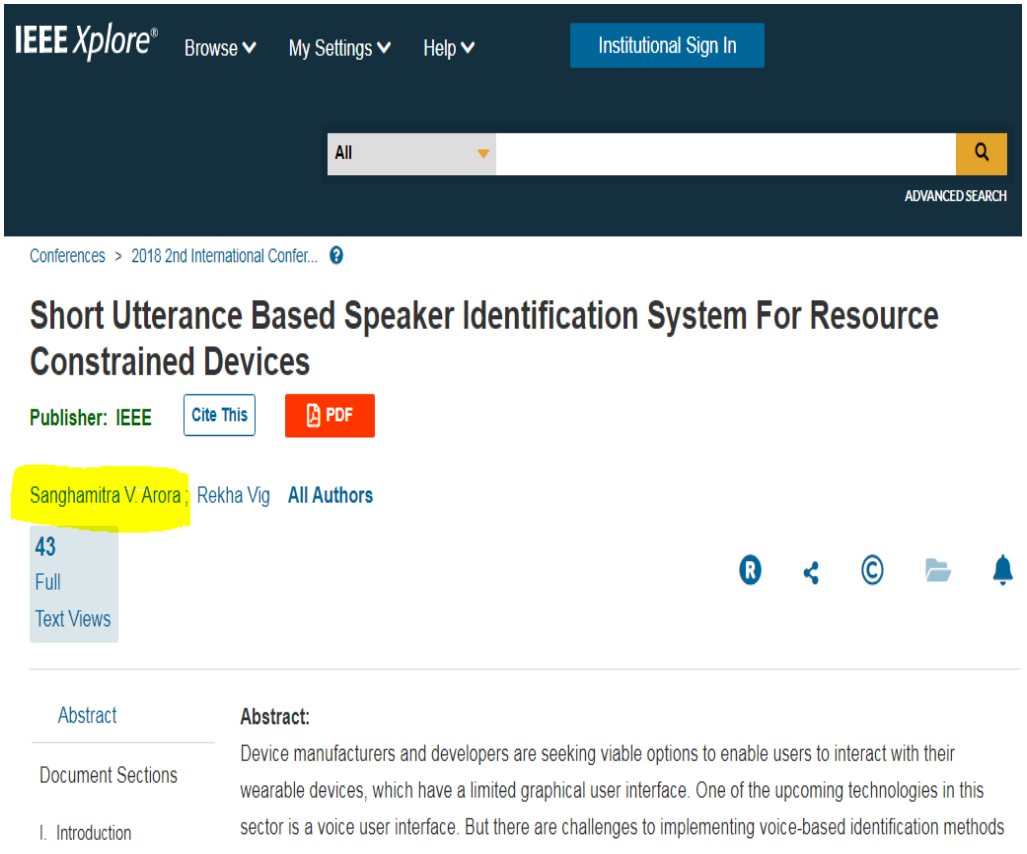
Title of the Paper: Short Utterance Based Speaker Identification System For Resource Constrained Devices

Name of the Author: SANGHAMITRA VIKAS ARORA

Name of the Journal: IEEE



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Short Utterance Based Speaker Identification System For Resource Constrained Devices

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43 Full Text Views

Abstract

Document Sections

I. Introduction

Abstract:

Device manufacturers and developers are seeking viable options to enable users to interact with their wearable devices, which have a limited graphical user interface. One of the upcoming technologies in this sector is a voice user interface. But there are challenges to implementing voice-based identification methods

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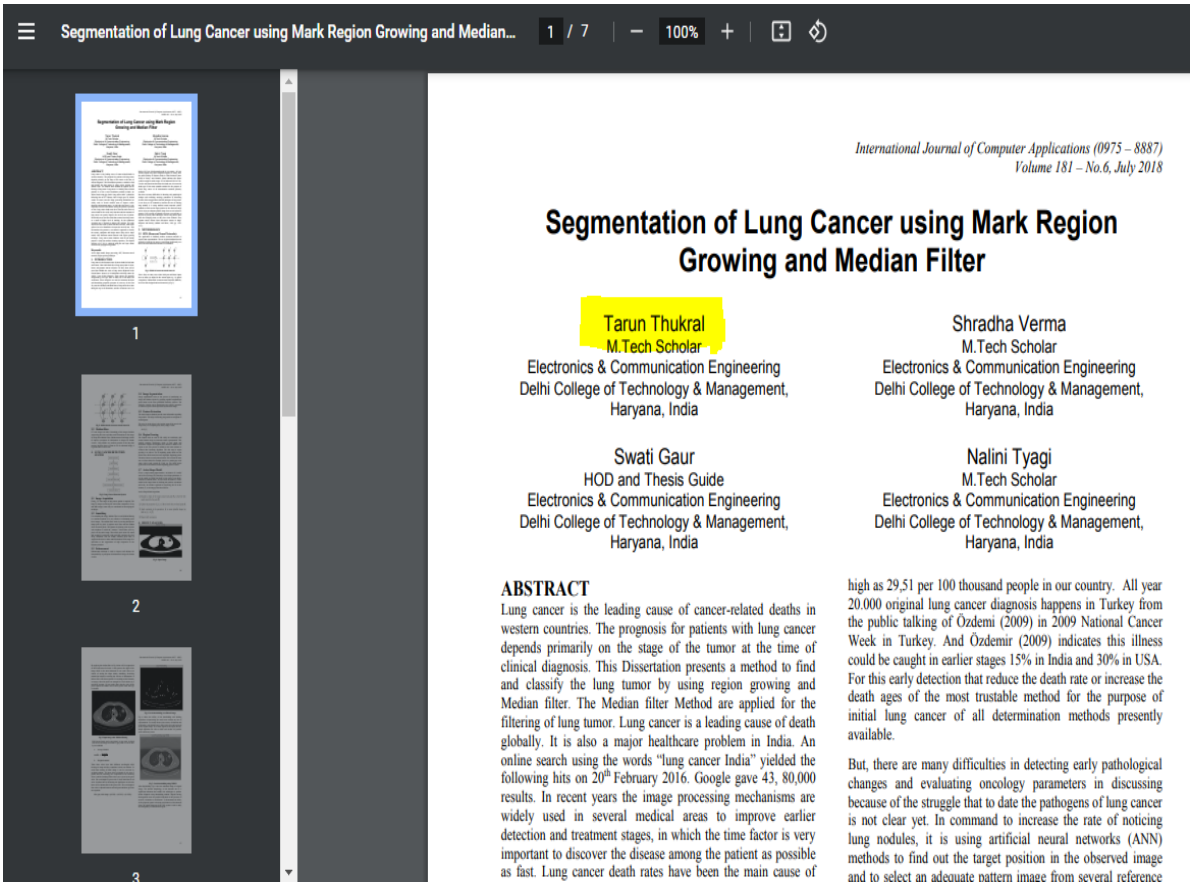
Title of the Paper: Segmentation of Lung Cancer using Mark Region Growing and Median Filter

Name of the Author: Tarun Thakural

Name of the Journal: International Journal of Computer Applications



International Journal of Computer Applications (0975 – 8887)
Volume 181 – No.6, July 2018

Segmentation of Lung Cancer using Mark Region Growing and Median Filter

Tarun Thukral
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ABSTRACT

Lung cancer is the leading cause of cancer-related deaths in western countries. The prognosis for patients with lung cancer depends primarily on the stage of the tumor at the time of clinical diagnosis. This Dissertation presents a method to find and classify the lung tumor by using region growing and Median filter. The Median filter Method are applied for the filtering of lung tumor. Lung cancer is a leading cause of death globally. It is also a major healthcare problem in India. An online search using the words "lung cancer India" yielded the following hits on 20th February 2016. Google gave 43, 80,000 results. In recent years the image processing mechanisms are widely used in several medical areas to improve earlier detection and treatment stages, in which the time factor is very important to discover the disease among the patient as possible as fast. Lung cancer death rates have been the main cause of high as 29,51 per 100 thousand people in our country. All year 20.000 original lung cancer diagnosis happens in Turkey from the public talking of Özdemi (2009) in 2009 National Cancer Week in Turkey. And Özdemir (2009) indicates this illness could be caught in earlier stages 15% in India and 30% in USA. For this early detection that reduce the death rate or increase the death ages of the most trustable method for the purpose of initial lung cancer of all determination methods presently available.

But, there are many difficulties in detecting early pathological changes and evaluating oncology parameters in discussing because of the struggle that to date the pathogens of lung cancer is not clear yet. In command to increase the rate of noticing lung nodules, it is using artificial neural networks (ANN) methods to find out the target position in the observed image and to select an adequate pattern image from several reference

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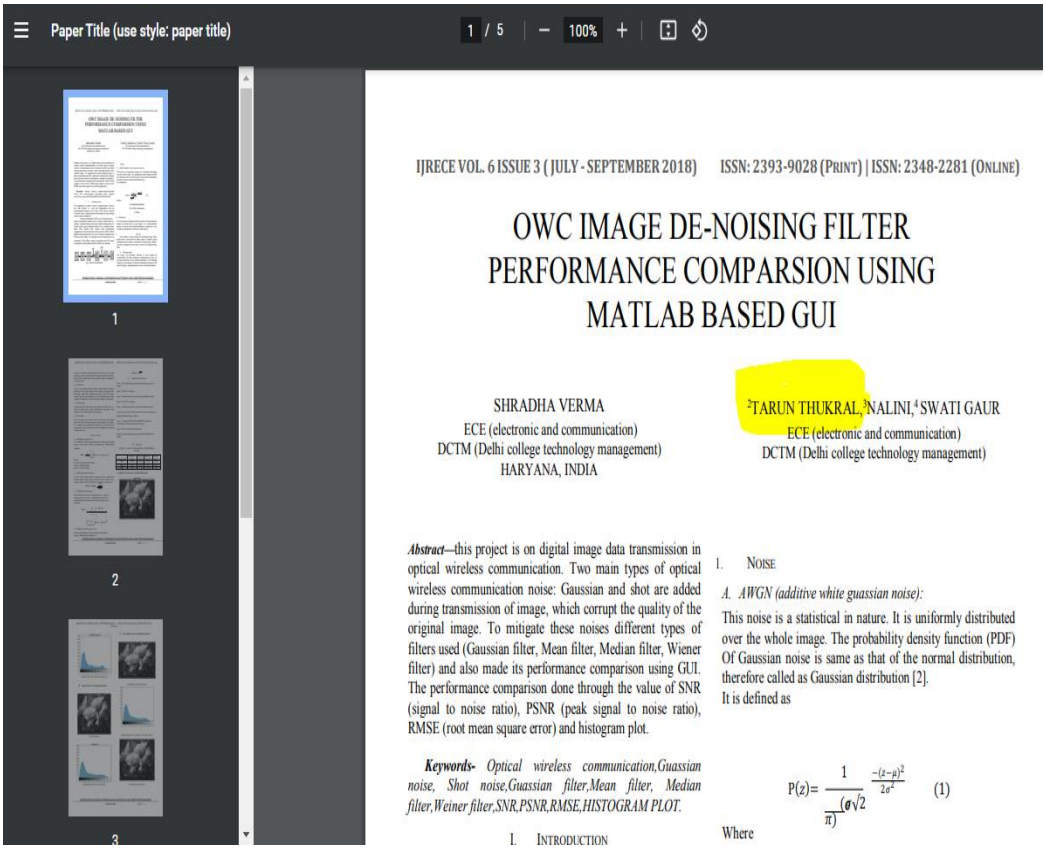

IJRECE VOL. 6 ISSUE 3 (JULY - SEPTEMBER 2018) ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE)

OWC IMAGE DE-NOISING FILTER PERFORMANCE COMPARSION USING MATLAB BASED GUI

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***Abstract*—this project is on digital image data transmission in optical wireless communication. Two main types of optical wireless communication noise: Gaussian and shot are added during transmission of image, which corrupt the quality of the original image. To mitigate these noises different types of filters used (Gaussian filter, Mean filter, Median filter, Wiener filter) and also made its performance comparison using GUI. The performance comparison done through the value of SNR (signal to noise ratio), PSNR (peak signal to noise ratio), RMSE (root mean square error) and histogram plot.**

Keywords- *Optical wireless communication,Guassian noise, Shot noise,Guassian filter,Mean filter, Median filter,Weiner filter,SNR,PSNR,RMSE,HISTOGRAM PLOT.*

I. INTRODUCTION

1. NOISE

A. AWGN (additive white guassian noise):

This noise is a statistical in nature. It is uniformly distributed over the whole image. The probability density function (PDF) Of Gaussian noise is same as that of the normal distribution, therefore called as Gaussian distribution [2].
It is defined as

$$P(z) = \frac{1}{(\sigma\sqrt{2\pi})} \frac{-(z-\mu)^2}{2\sigma^2} \quad (1)$$

Where

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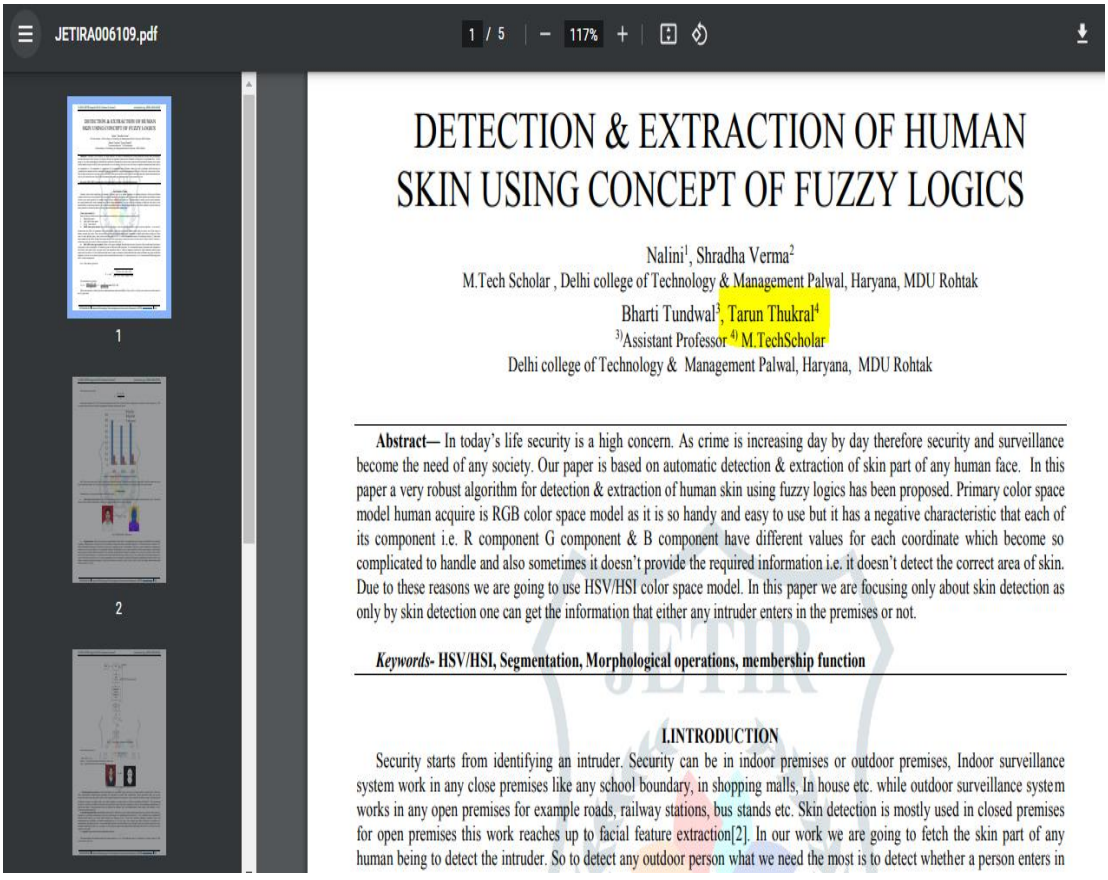

DETECTION & EXTRACTION OF HUMAN SKIN USING CONCEPT OF FUZZY LOGICS

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Bharti Tundwal[3], Tarun Thukral[4]
[3])Assistant Professor [4)] M.TechScholar
Delhi college of Technology & Management Palwal, Haryana, MDU Rohtak

Abstract— In today's life security is a high concern. As crime is increasing day by day therefore security and surveillance become the need of any society. Our paper is based on automatic detection & extraction of skin part of any human face. In this paper a very robust algorithm for detection & extraction of human skin using fuzzy logics has been proposed. Primary color space model human acquire is RGB color space model as it is so handy and easy to use but it has a negative characteristic that each of its component i.e. R component G component & B component have different values for each coordinate which become so complicated to handle and also sometimes it doesn't provide the required information i.e. it doesn't detect the correct area of skin. Due to these reasons we are going to use HSV/HSI color space model. In this paper we are focusing only about skin detection as only by skin detection one can get the information that either any intruder enters in the premises or not.

***Keywords*- HSV/HSI, Segmentation, Morphological operations, membership function**

I.INTRODUCTION

Security starts from identifying an intruder. Security can be in indoor premises or outdoor premises, Indoor surveillance system work in any close premises like any school boundary, in shopping malls, In house etc. while outdoor surveillance system works in any open premises for example roads, railway stations, bus stands etc. Skin detection is mostly used in closed premises for open premises this work reaches up to facial feature extraction[2]. In our work we are going to fetch the skin part of any human being to detect the intruder. So to detect any outdoor person what we need the most is to detect whether a person enters in

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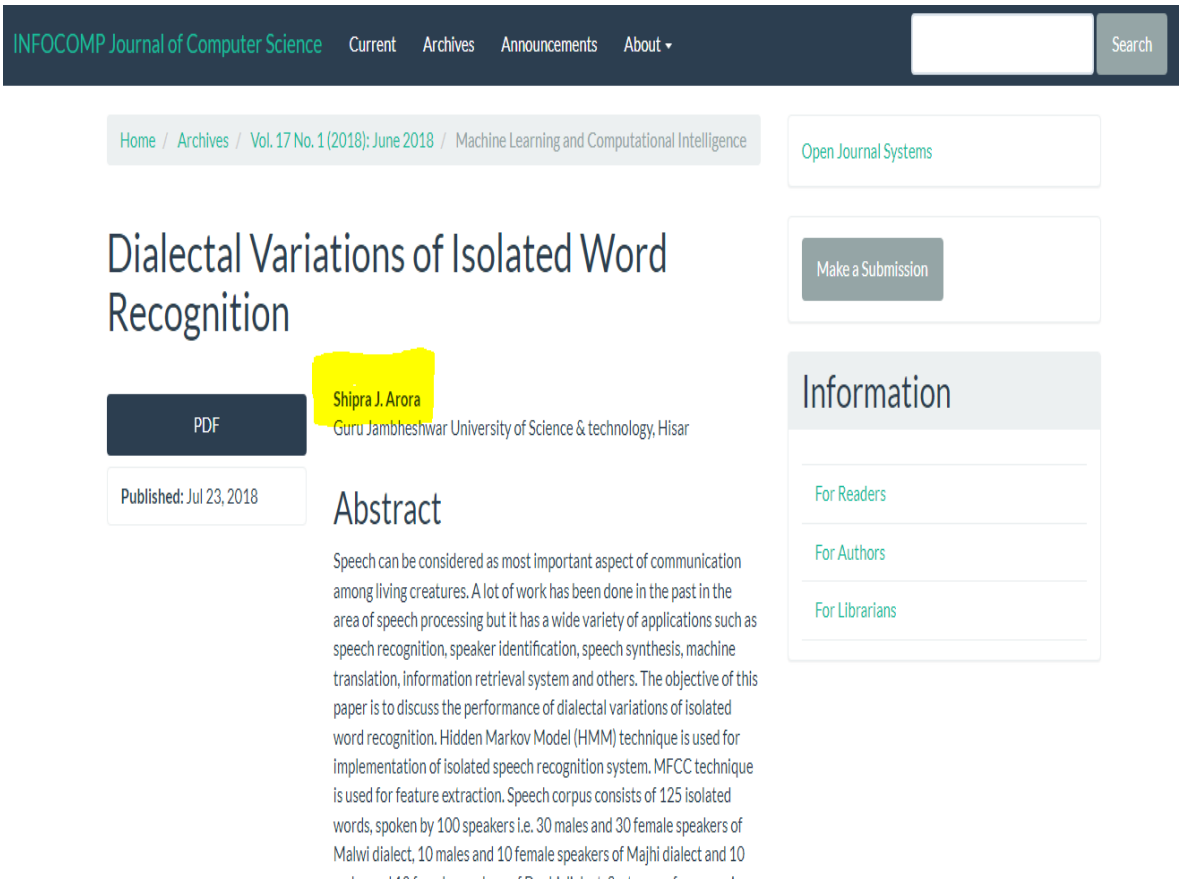

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Dialectal Variations of Isolated Word Recognition

PDF

Published: Jul 23, 2018

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Guru Jambheshwar University of Science & technology, Hisar

Abstract

Speech can be considered as most important aspect of communication among living creatures. A lot of work has been done in the past in the area of speech processing but it has a wide variety of applications such as speech recognition, speaker identification, speech synthesis, machine translation, information retrieval system and others. The objective of this paper is to discuss the performance of dialectal variations of isolated word recognition. Hidden Markov Model (HMM) technique is used for implementation of isolated speech recognition system. MFCC technique is used for feature extraction. Speech corpus consists of 125 isolated words, spoken by 100 speakers i.e. 30 males and 30 female speakers of Malwi dialect, 10 males and 10 female speakers of Majhi dialect and 10

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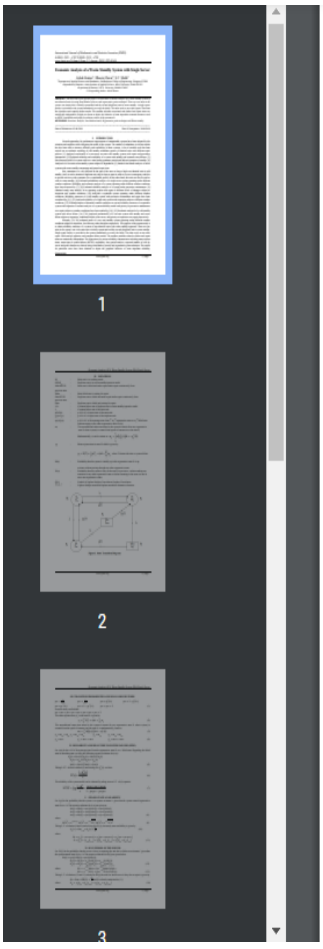

International Journal of Mathematics and Statistics Invention (IJMSI)
E-ISSN: 2321 – 4767 P-ISSN: 2321 - 4759
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Economic Analysis of a Warm Standby System with Single Server

Ashok Kumar[1], Dheeraj Pawar[2], S.C. Malik[3]
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[2]*Department of Statistics, Amity Institute of Applied Sciences, Amity University, Noida-201313*
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Corresponding Author: Ashok Kumar

ABSTRACT: *The main aim of the present paper is to determine economic analysis of a warm standby system of non-identical units by using Semi-Markov process and regenerative point technique. There are two units in the system–one (main) unit is initially operational and the second (duplicate) unit in warm standby. A single repair facility is provided to the system immediately to rectify the faults. The units work as new after repair. Each unit has operative and complete failure modes. The random variables associated with failure and repair times are statistically independent. Graphs are drawn to depict the behavior of some important economic measures such as MTSF, availability and profit for arbitrary values of the parameters.*

KEYWORDS: *Economic Analysis, Non-Identical units, Regenerative point technique and Warm standby.*

Date of Submission: 03-08-2018 Date Of Acceptance: 18-08-2018

I. INTRODUCTION

Several approaches for performance improvement of maintainable systems have been adopted by the scientists and engineers while designing the model of the system. The method of redundancy in diverse modes has also been used to increase efficiency and availability of these systems. A lot of research work has been carried out on stochastic modeling of cold standby redundant systems of identical units with different repair

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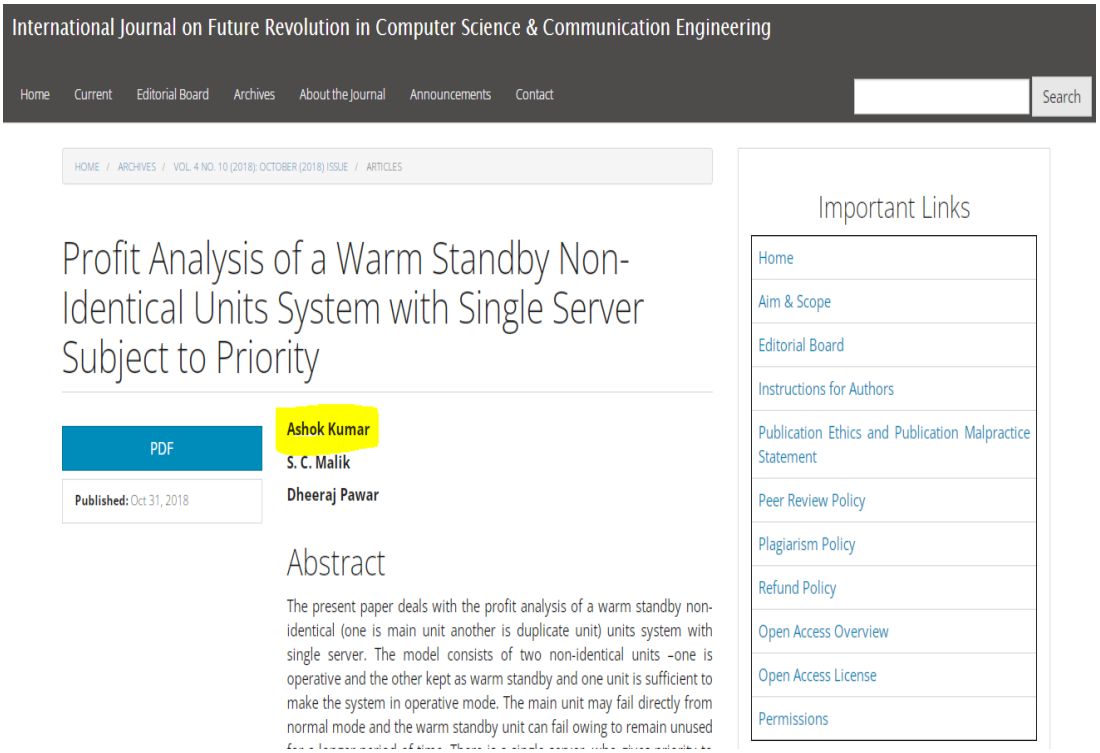

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Profit Analysis of a Warm Standby Non-Identical Units System with Single Server Subject to Priority

PDF

Published: Oct 31, 2018

Ashok Kumar
S. C. Malik
Dheeraj Pawar

Abstract

The present paper deals with the profit analysis of a warm standby non-identical (one is main unit another is duplicate unit) units system with single server. The model consists of two non-identical units –one is operative and the other kept as warm standby and one unit is sufficient to make the system in operative mode. The main unit may fail directly from normal mode and the warm standby unit can fail owing to remain unused

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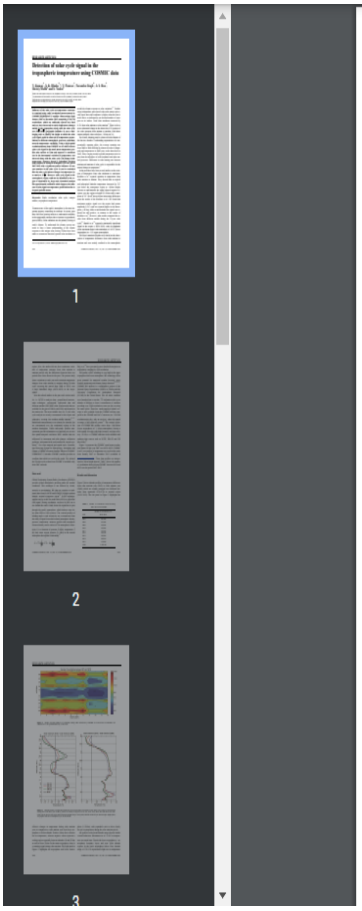

RESEARCH ARTICLES

Detection of solar cycle signal in the tropospheric temperature using COSMIC data

V. Kumar[1], S. K. Dhaka[1,*], V. Panwar[1], Narendra Singh[2], A. S. Rao[3], Shristy Malik[3] and S. Yoden[4]

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[3]Department of Applied Physics, Delhi Technical University, Delhi 110 042, India
[4]Department of Geophysics, Kyoto University, Kyoto 606850, Japan

Influence of the solar cycle on temperature structure is examined using radio occultation measurements by COSMIC/FORMASAT-3 satellite. Observations from January 2007 to December 2015 comprising 3,764,728 occultations, which are uniformly spread over land and sea, have been used to study temperature changes mainly in the troposphere along with the solar cycle over 60°N–60°S geographic latitudes. It was a challenging task to identify the height at which the solar cycle signal could be observed in temperature perturbations as different atmospheric processes contribute towards temperature variability. Using a high spatial resolution dataset from COSMIC we are able to detect solar cycle signal in the zonal mean temperature profiles near surface at 2 km and upward. A consistent rise in the interannual variation of temperature was observed along with the solar cycle. The change in the

model the climate response to solar variations[1–3]. Studies using independent space-based solar radio meters universally agree that solar irradiance is higher when the Sun is more active, as indicated by an elevated number of sunspots on its surface. Total solar irradiance increased by 0.1% from solar minima to solar maxima[4]. There is also a more substantial change in the ultraviolet (UV) portion of the solar spectrum from minima to maxima, with direct impact primarily observed above ~10 km (ref. 4).

An overall warming trend is observed in the climate of the last two decades. Confounding expectations of a monotonically warming globe, the average warming rate from 2000 to 2008 subsided by almost an order of magnitude and temperatures in 2008 were cooler than those in 2002. These varying trends in global temperature arise in part from the influences of solar irradiance and other nat-

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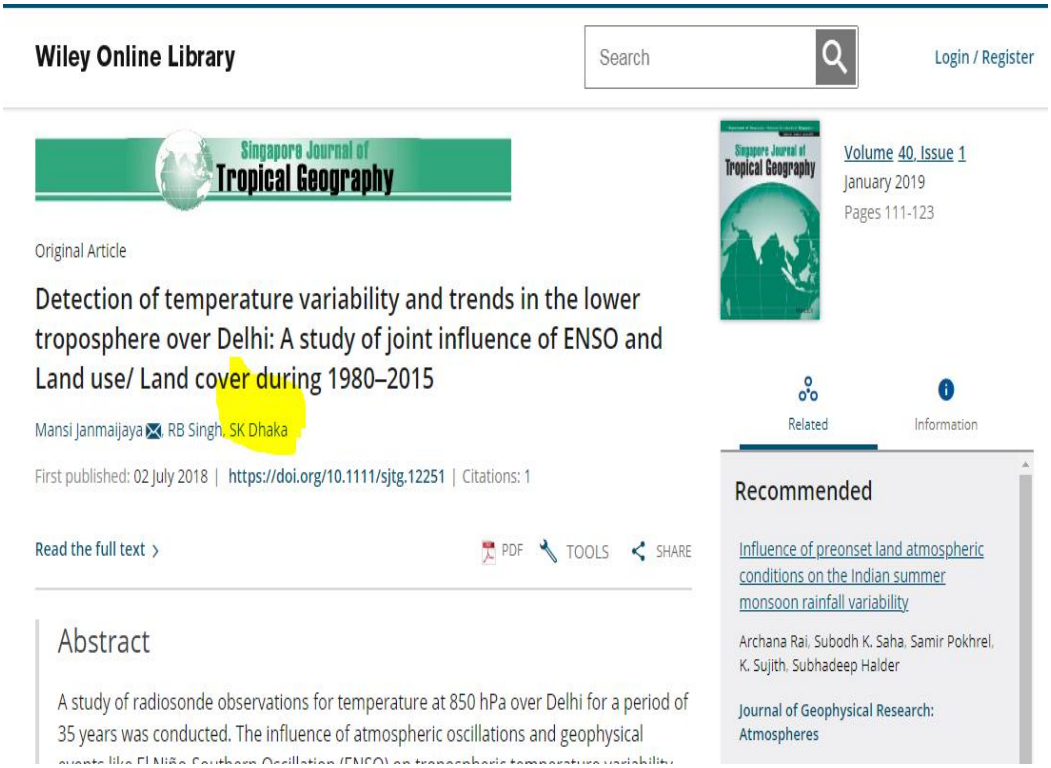

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Mansi Janmaijaya, RB Singh, SK Dhaka

First published: 02 July 2018 | https://doi.org/10.1111/sjtg.12251 | Citations: 1

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A study of radiosonde observations for temperature at 850 hPa over Delhi for a period of 35 years was conducted. The influence of atmospheric oscillations and geophysical

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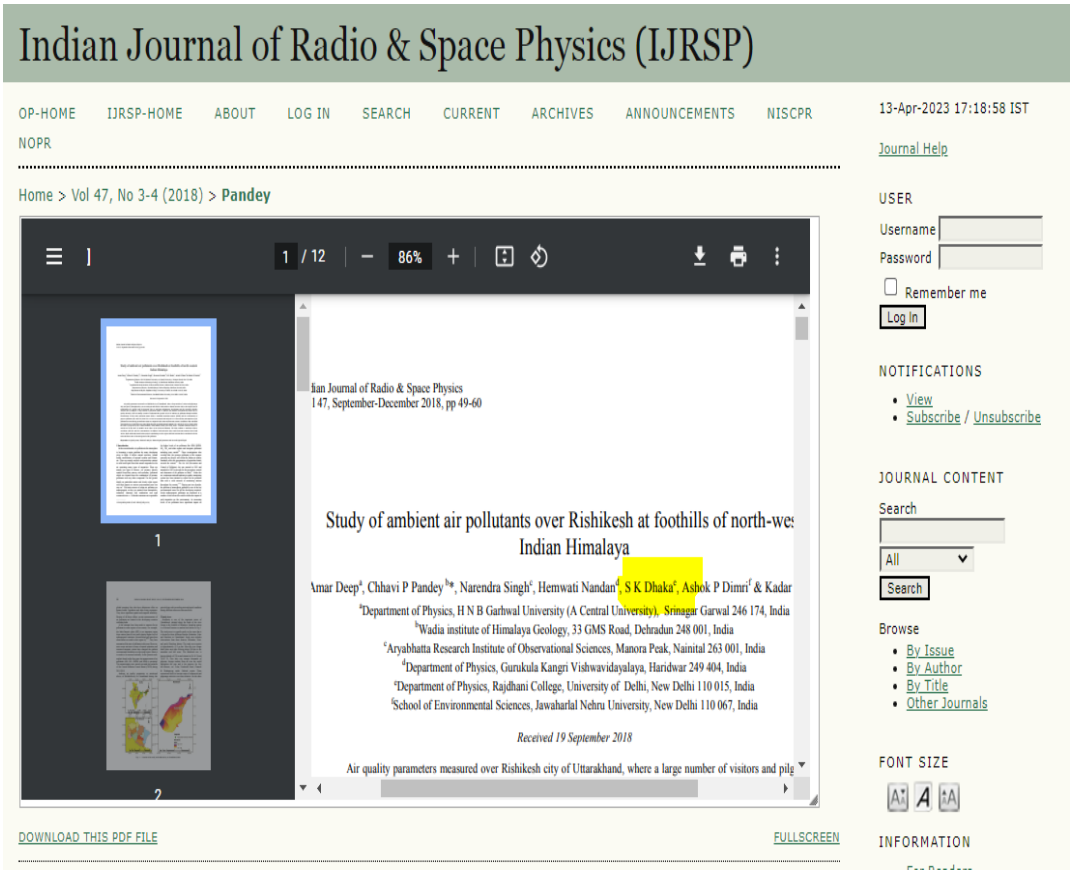

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Study of ambient air pollutants over Rishikesh at foothills of north-wes
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Amar Deep[a], Chhavi P Pandey[b]*, Narendra Singh[c], Hemwati Nandan[d], S K Dhaka[e], Ashok P Dimri[f] & Kadar

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Air quality parameters measured over Rishikesh city of Uttarakhand, where a large number of visitors and pilg

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Future perspectives of run-of-the-river hydropower and the impact of glaciers' shrinkage: The case of Italian Alps

Epari Ritesh Patro [a], Carlo De Michele [a], Francesco Avanzi [a b]

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Electrical properties of $Se_{80-x}Te_{20}Sb_x$ (0 ≤ x ≤ 12) nanorods

Deepika[1] and Hukum Singh[1]

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Citation Deepika and Hukum Singh 2018 *Mater. Res. Express* 5 095026

DOI 10.1088/2053-1591/aad85c

Abstract

The present study reports the electrical properties of $Se_{80-x}Te_{20}Sb_x$ (0 ≤ x ≤ 12) nanorods as a function of temperature and composition. The amorphous bulk powder of $Se_{80-x}Te_{20}Sb_x$ (0 ≤ x ≤ 12) glasses were prepared using melt quenching method and the nanostructured thin films were prepared using

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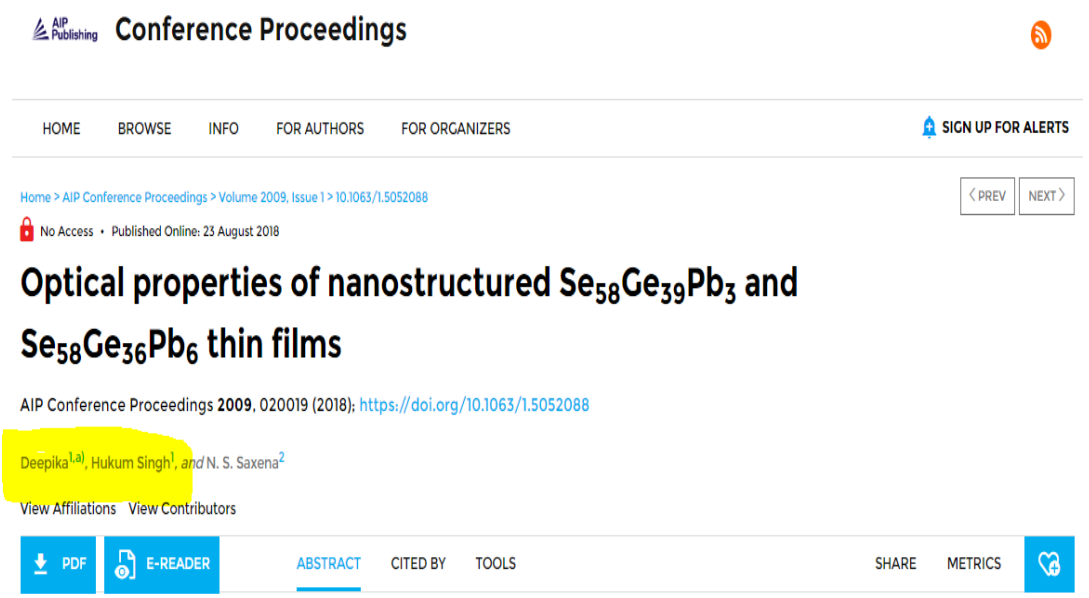

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Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films

AIP Conference Proceedings **2009**, 020019 (2018); https://doi.org/10.1063/1.5052088

Deepika[1,a], Hukum Singh[1], *and* N. S. Saxena[2]

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ABSTRACT

This paper reports the optical properties such as refractive index, extinction coefficient, band gap etc, for nanostructured thin films of $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ glasses. The glasses were prepared using conventional melt quenching technique and nanostructured

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www.ijresm.com | ISSN (Online): 2581-5792

Benefits of Integrating Cloud Computing with Internet of Things

Ashutosh Kumar[1], Ashima Mehta[2]
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***Abstract*: This paper is a theoretical approach on the mentioned topic. In this research we mainly focus on the benefits of integration and challenges associated with the same. The main goal of the interaction and cooperation between objects over the wireless networks is to fulfill the objective set for them as a combined entity. This paper mainly focuses on the integration of cloud and IoT which is called Cloud IoT paradigm and what are their usage scenarios. However,the research work lacks detailed analysis of the new CloudIoT paradigm, which involves completely new applications, benefits, challenges and research issues. The challenges or the issues include security concern and the compatibility check between the respective systems. There are many issues standing in the successful implementation of both Cloud and IoT. The integration of Cloud Computing with the IoT is the most effective way on which to overcome these issues.**

***Keywords*: cloud computing, IoT**

1. Introduction

As technology progresses, connectivity of devices with the

2. Basic concepts

Basics of IoT and Cloud and over viewing the characteristics essential for their integration.

A. Internet of things

In the era of computing a new wave is predicted that is realm of traditional computer named IoT. IoT is short form for Internet of Things. Internet of Things (IoT) is an ecosystem of connected physical objects that can be accessed through the internet. The IoT consists of objects that have been assigned an IP address and perform data collection and transfer amongst them without any manual intervention. The thing or object in IoT includes entities like heart monitor, home automation system, automobile with sensors etc. The embedded technology in the objects helps them to interact with internal states or the external environment, which in turn affects the decisions taken. IoT Scan help companies improve performance through IoT analytic and IoT Security to deliver better results. IoT has

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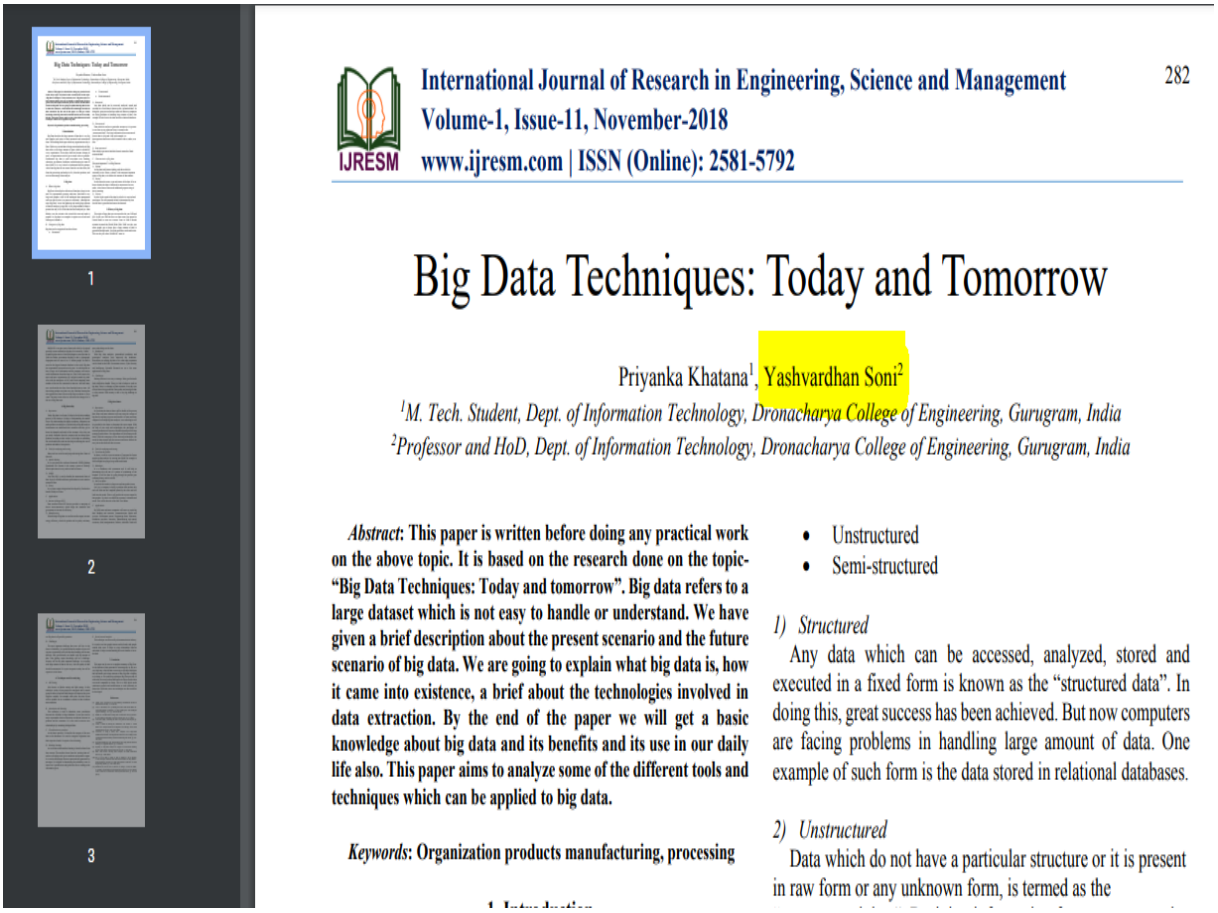

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Big Data Techniques: Today and Tomorrow

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Abstract: This paper is written before doing any practical work on the above topic. It is based on the research done on the topic- "Big Data Techniques: Today and tomorrow". Big data refers to a large dataset which is not easy to handle or understand. We have given a brief description about the present scenario and the future scenario of big data. We are going to explain what big data is, how it came into existence, a brief about the technologies involved in data extraction. By the end of the paper we will get a basic knowledge about big data and its benefits and its use in our daily life also. This paper aims to analyze some of the different tools and techniques which can be applied to big data.

Keywords: Organization products manufacturing, processing

- Unstructured
- Semi-structured

1) Structured

Any data which can be accessed, analyzed, stored and executed in a fixed form is known as the "structured data". In doing this, great success has been achieved. But now computers are facing problems in handling large amount of data. One example of such form is the data stored in relational databases.

2) Unstructured

Data which do not have a particular structure or it is present in raw form or any unknown form, is termed as the

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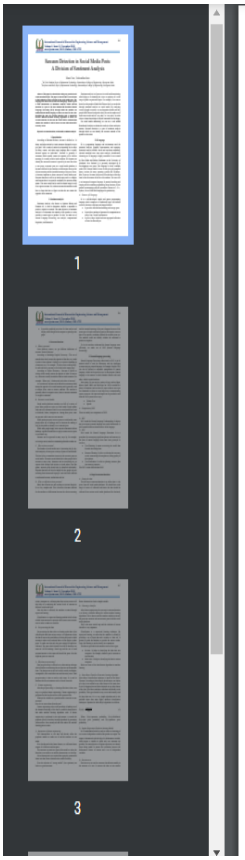

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Sarcasm Detection in Social Media Posts: A Division of Sentiment Analysis

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***Abstract*: This paper is written before doing any practical work on the mentioned topic. The paper is based on the re-search done to find methods to detect sarcasm in the social media posts. The language that will be used for this is the R language. We have given a brief introduction of Sentiment Analysis, which sarcasm detection is a part of. We have defined and described Natural Language Processing (NLP), through which the machine can understand the human language to detect sarcasm. We have also described the steps for sarcasm detection and a comparison between different machine learning algorithms to choose for sarcasm detection. In the end, the result will be evaluated that whether the machine is able to detect sarcasm with atleast 80%**

Sentiment analysis is of great use in social media monitoring which helps us in obtaining the views or opinions of a wide range of public on particular topics. For example, if we want to know how the people of India find Chinese food, we can do this through sentiment analysis on social media. By analysing tweets of people on twitter, we can determine whether and why people find Chinese food good or bad. We can also make use of some exact words such as "very salty" or "very spicy" in order to have a better knowledge of why the consumers are not happy.

For social media monitoring, we can use a tool named

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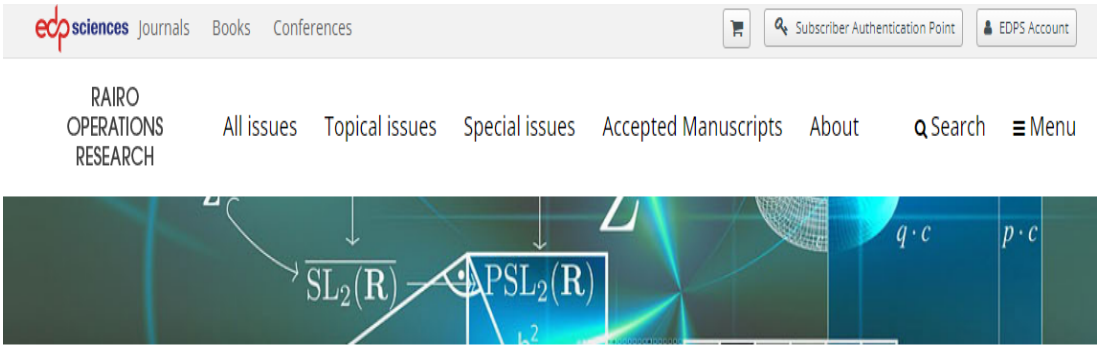
Title of the Paper: Supply chain models with imperfect quality items when end demand is sensitive to price and marketing expenditure

Name of the Author: Rita Yadav

Name of the Journal: RAIRO-Oper. Res.



All issues › Volume 52 / No 3 (July-September 2018) › RAIRO-Oper. Res., 52 3 (2018) 725-742 › Abstract

REVIEW

Issue RAIRO-Oper. Res.
Volume 52, Number 3, July-September 2018
Page(s) 725 - 742
DOI https://doi.org/10.1051/ro/2018011
Published online 14 September 2018

RAIRO-Oper. Res. 52 (2018) 725–742

Supply chain models with imperfect quality items when end demand is sensitive to price and marketing expenditure

Rita Yadav[1], Sarla Pareek[2] and Mandeep Mittal[3*]

Principal
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Farrukh Nagar, Gurgaon.

Title of the Paper: Plastic crystal-incorporated magnesium ion conducting gel polymer electrolyte for battery application

Name of the Author: Dr. JYOTI SHARMA

Name of the Journal: Bulletin of Materials Science

Published: 03 December 2018

Plastic crystal-incorporated magnesium ion conducting gel polymer electrolyte for battery application

Jyoti Sharma & S A Hashmi

Bulletin of Materials Science **41**, Article number: 147 (2018) | Cite this article

Abstract

Studies on a novel composition of magnesium ion conducting gel polymer electrolyte (GPE), comprising a solution of Mg-salt, magnesium trifluoromethanesulfonate (Mg-triflate or $Mg(Tf)_2$) in a plastic crystal succinonitrile (SN), entrapped in a host polymer poly(vinylidenefluoride–hexafluoropropylene) (PVdF–HFP) was reported. Small amount of an ionic liquid, 1-ethyl-3-methylimidazolium trifluoromethanesulfonate (EMITf) was added to stabilize the GPE composition. The electrolyte possesses excellent dimensional integrity in the form of free-standing thick film, which offers the ionic conductivity of 4×10^{-3} S cm^{-1} at room temperature $\sim$26°C. The electrochemical potential window of the electrolyte, observed

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Title of the Paper: Cooperative/Non-cooperative Supply Chain Models for Imperfect Quality Items with Trade Credit Financing

Name of the Author: Rita Yadav

Name of the Journal: Logistics, Supply Chain and Financial Predictive Analytics

SpringerLink

Logistics, Supply Chain and Financial Predictive Analytics pp 1–17 | Cite as

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Cooperative/Non-cooperative Supply Chain Models for Imperfect Quality Items with Trade Credit Financing

Rita Yadav, Sarla Pareek & Mandeep Mittal

Chapter | First Online: 07 August 2018

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Part of the Asset Analytics book series (ASAN)

Abstract

This paper studies the cooperative and non-cooperative models between the two partners of the supply chain system, seller and buyer. In this paper, supply chain models are formulated for imperfect quality items in which end demand of the product depends upon the retail price.

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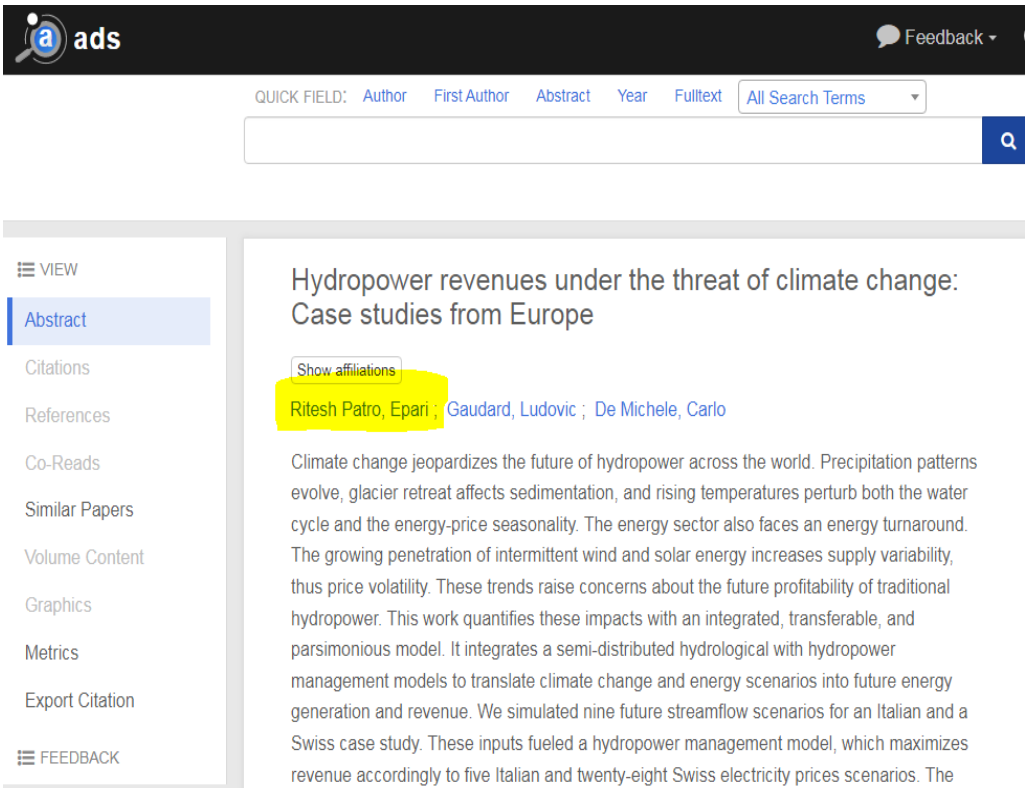
Name of the Journal: Geophysical Research Abstracts



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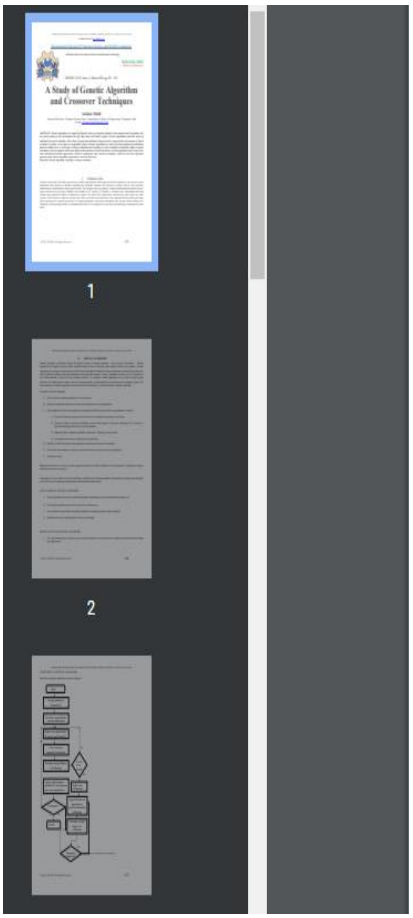
Title of the Paper: A Study of Genetic Algorithm and Crossover Techniques

Name of the Author: Ashima Malik

Name of the Journal: International Journal of Computer Science and Mobile Computing



International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320–088X
IMPACT FACTOR: 6.017

IJCSMC, Vol. 8, Issue. 3, March 2019, pg.335 – 344

A Study of Genetic Algorithm and Crossover Techniques

Ashima Malik
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E-mail: ashima.13malik@gmail.com

ABSTRACT: Genetic algorithms are inspired by Darwin's theory of natural evolution. In the natural world, organisms who are poorly suited for the environment die off, while those well suited, prosper. Genetic algorithms search the space of individuals for good candidates. The chance of particular individual being selected is proportional to the amount by which its fitness is greater or less than its competitors' fitness. Genetic algorithms are ways of solving problems by mimicking processes nature uses; i.e. Selection, Crossover, Mutation and accepting, to evolve a solution to a problem. Many crossover techniques exist for organism which uses different data structures to store themselves. Genetic algorithm which is one of the most well-known heuristic approaches, crossover components and crossover techniques, which are the most important property of the Genetic algorithms performance, has been discussed.
Keywords: Genetic algorithm; encoding; crossover; mutation.

Principal
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Farrukh Nagar, Gurgaon.

Title of the Paper: On Metallurgical and Mechanical Characterization of Ni/Cr3C2 Cladding Developed Through Microwave Heating

Name of the Author: Sandeep Bansal

Name of the Journal: 1st International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME-19)

Conference Paper

On Metallurgical and Mechanical Characterization of Ni/Cr3C2 Cladding Developed Through Microwave Heating

May 2019

Conference: 1st International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME-19) · At: NMAM Institute of Technology, Nitte, Karnataka, India

Authors:

Jonty Mago
Indian Institute of Technology Delhi

Sandeep Bansal
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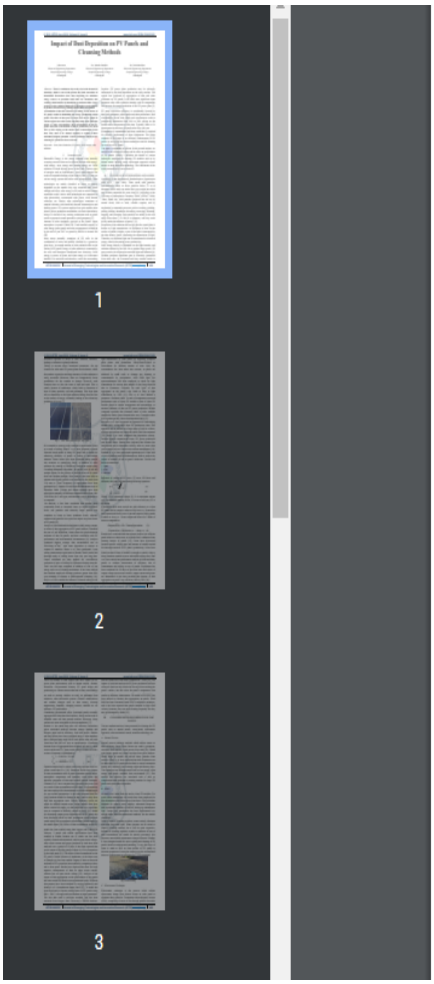
Title of the Paper: Impact of Dust Deposition on PV Panels and Cleansing Methods

Name of the Author: Isha Arora

Name of the Journal: Journal of Emerging Technologies and Innovative Research



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Impact of Dust Deposition on PV Panels and Cleansing Methods

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Electrical Engineering Department
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Punjab Engineering College
Chandigarh

Dr. Tarlochan Kaur
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Chandigarh

Abstract—**There is continuous day-to-day rise in the demand of electricity, which is one of the present day basic necessities of humankind. Researchers have been inspecting for substitute energy sources as prevalent fossil fuels are hazardous and creating critical menace by intensifying green-house effect. Large portion of solar radiation hitting the earth surface can be utilised to produce electrical energy through photovoltaic (PV) panels. Accumulation of dust also referred to as soiling, on the surface of PV panels results in diminishing the energy productivity of the panels. The effect of dust poses as major issue for PV plants in various regions across the world, especially in the areas with dust storms or dusty surroundings. Dust accumulation on the PV panels and solar concentrators result in productivity loss from 10% to 30% relying on the surface mass concentration of the dust. They need to be cleaned regularly to exploit to their maximum designed potential. Various techniques employed for cleansing PV panels have been reviewed.**

Keywords— Dust; dust elimination; PV panels; power output; solar radiation.

I. INTRODUCTION

Renewable Energy is the energy deduced from naturally location. PV power plant production may be adversely influenced by the dust deposition on the array surface. The optical loss produced by aggregation of dust and other pollutants on PV panels is the third most significant input parameter after solar radiation intensity and air temperature that governs the energy production of the PV power plant [3]. PV panel conversion efficiency is considerably lowered by dust, soil, pollutants, pollen grains and other particulates. Dust accumulation on the solar panels and concentrators result in productivity diminution from 10% to 30% relying on the surface mass concentration of the dust. Typically, there is 1% deterioration in efficiency of panels after every one year.

Elimination of contaminants and dusty molecules is required for effective performance of these equipments. The prime emphasis of this paper is on efficiency enhancement of PV panels by reviewing the various techniques used for cleaning the surfaces of PV panels.

The paper is organised as follows. In the second section, we introduce the concept of soiling and its effect on performance of PV panels. Section 3 describes the details of various techniques employed for cleaning PV modules such as by

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Title of the Paper: MICROSTRUCTURAL CHARACTERISTICS OF MICROWAVE PROCESSED NI-10%CR3C2 COMPOSITE CLADDING

Name of the Author: Sandeep Bansal

Name of the Journal: Journal of Emerging Technologies and Innovative Research

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MICROSTRUCTURAL CHARACTERISTICS OF MICROWAVE PROCESSED NI-10%CR3C2 COMPOSITE CLADDING

Authors

Sandeep Bansal
Jonty Mago
Dheeraj Gupta
Vivek Jain

Abstract

In the current study microwave energy has been used to develop composite clad of Ni+10%Cr3C2(by wt%) on SS-316 substrate in a domestic microwave oven, generally used for low-temperature applications, having a frequency range of 2.45GHz and 900W power

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Name of the Author: Yudhveer Kumar Verma

Name of the Journal: International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)

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Title of the Paper: A compact notched UWB MIMO antenna with enhanced performance

Name of the Author: Dr. Ekta Thakur

Name of the Journal: Progress In Electromagnetics Research C

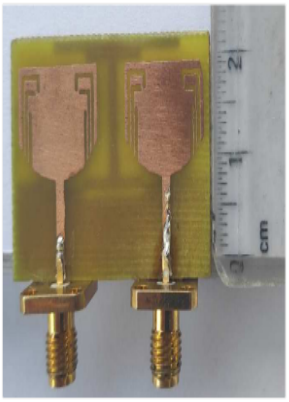
2019-03-11

A Compact Notched UWB MIMO Antenna with Enhanced Performance

By Ekta Thakur, Naveen Jaglan, Samir Dev Gupta, Binod Kanaujia

Progress In Electromagnetics Research C, Vol. 91, 39-53, 2019

doi:10.2528/PIERC18120202



Abstract

This paper investigates the performance of compact triple band-notched Multiple Input Multiple Output (MIMO) antenna for Ultra-Wideband (UWB) communication. Open-ended quarter wavelength slots are inserted on the radiators. These slots are used to obtain notch bands at WiMAX/C band, WLAN band and the X-band Satellite Communication System that ranges in 3.3-4.2 GHz, 5-6 GHz, and 7.2-8.6 GHz respectively. An I-shaped stub extends from the ground surface to minimize mutual coupling among radiating elements. Mutual coupling and Envelope Correlation Coefficient are found less than -15 dB and

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Title of the Paper: Beam steering characteristics of highly directive photoconductive dipole phased array antenna for terahertz imaging application

Name of the Author: Dr. ISHA MALHOTRA

Name of the Journal: Optical and Quantum Electronics

Springer Link

Home > Optical and Quantum Electronics > Article

Published: 03 January 2019

Beam steering characteristics of highly directive photoconductive dipole phased array antenna for terahertz imaging application

Isha Malhotra, Kumud Ranjan Jha & G. Singh

Optical and Quantum Electronics **51**, Article number: 27 (2019) | Cite this article

Abstract

In this paper, the beam-steering characteristics of photoconductive dipole phased array antenna configuration at 1.95 THz is presented. The proposed array antenna configuration with frequency selective surface favourably improves its gain and directivity which is useful to upsurge the imaging capabilities to address the deliberations such as limited depth-of-field (DoF) and size-weight-and-power of the THz source for imaging applications. These are important considerations for applications like stand-off imaging and surveillance of moving targets where the high angular resolution as well as extended DoF are the important

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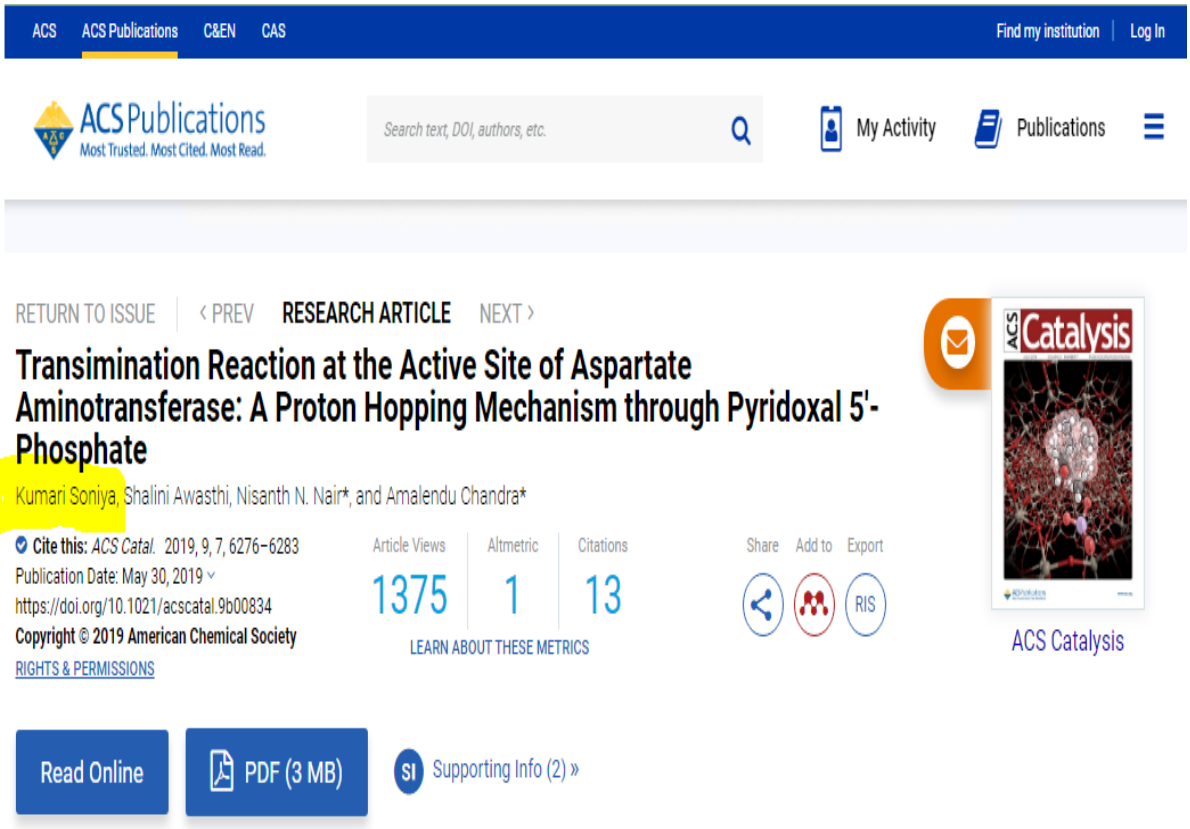
Title of the Paper: Transimination Reaction at the Active Site of Aspartate Aminotransferase: A Proton Hopping Mechanism through Pyridoxal 5'-Phosphate

Name of the Author: Dr. Soniya Kumari

Name of the Journal: ACS Catalysis



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Title of the Paper: Performance Comparison of Generalized Regression Network, Radial Basis Function Network and Support Vector Regression for Wind Power Forecasting

Name of the Author: Dr. JYOTHI VARANASI

Name of the Journal: International Review on Modelling and Simulations (IREMOS)

Praise Worthy Prize

International Review on Modelling and Simulations (IREMOS)

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Performance Comparison of Generalized Regression Network, Radial Basis Function Network and Support Vector Regression for Wind Power Forecasting

Jyothi Varanasi[1], Madan Mohan Tripathi[2*]

[*] *Corresponding author*

Authors' affiliations

DOI: https://doi.org/10.15866/iremos.v12i1.15781

Abstract

With the increasing global warming and enormous pollution, it is obvious to generate power from renewable energy sources. Wind power generation is volatile and intermittent in nature. Stable and reliable power supply

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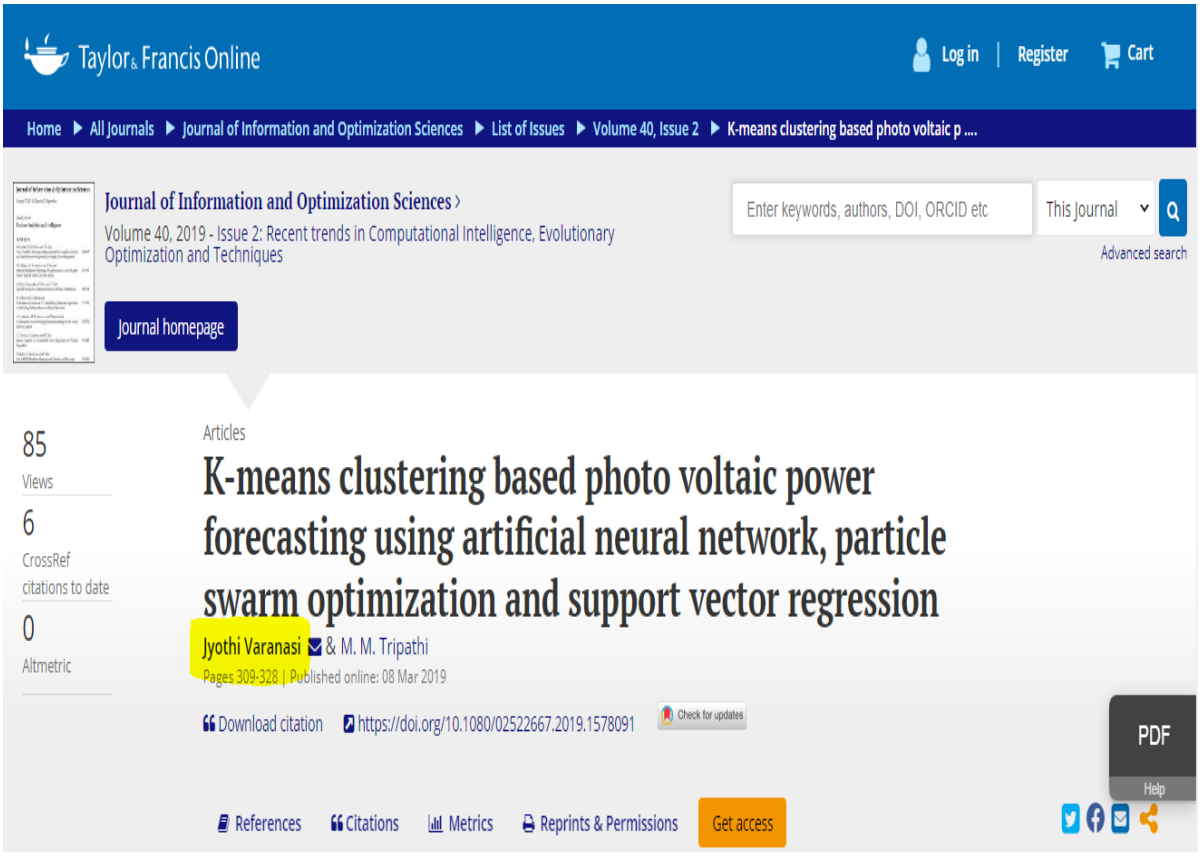
Name of the Author: Dr. JYOTHI VARANASI

Name of the Journal: Journal of Information and Optimization Sciences (JIOS)



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Title of the Paper: Free energy landscapes and mechanistic pathways of catalytic reactions of serine hydroxymethyltransferase in aqueous medium

Name of the Author: Dr. Soniya Kumari

Name of the Journal: ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY

Kumari Soniya

Free energy landscapes and mechanistic pathways of catalytic reactions of serine hydroxymethyltransferase in aqueous medium

Authors	Amalendu Chandra, Kumari Soniya
Publication date	2019/3/31
Conference	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY
Volume	257
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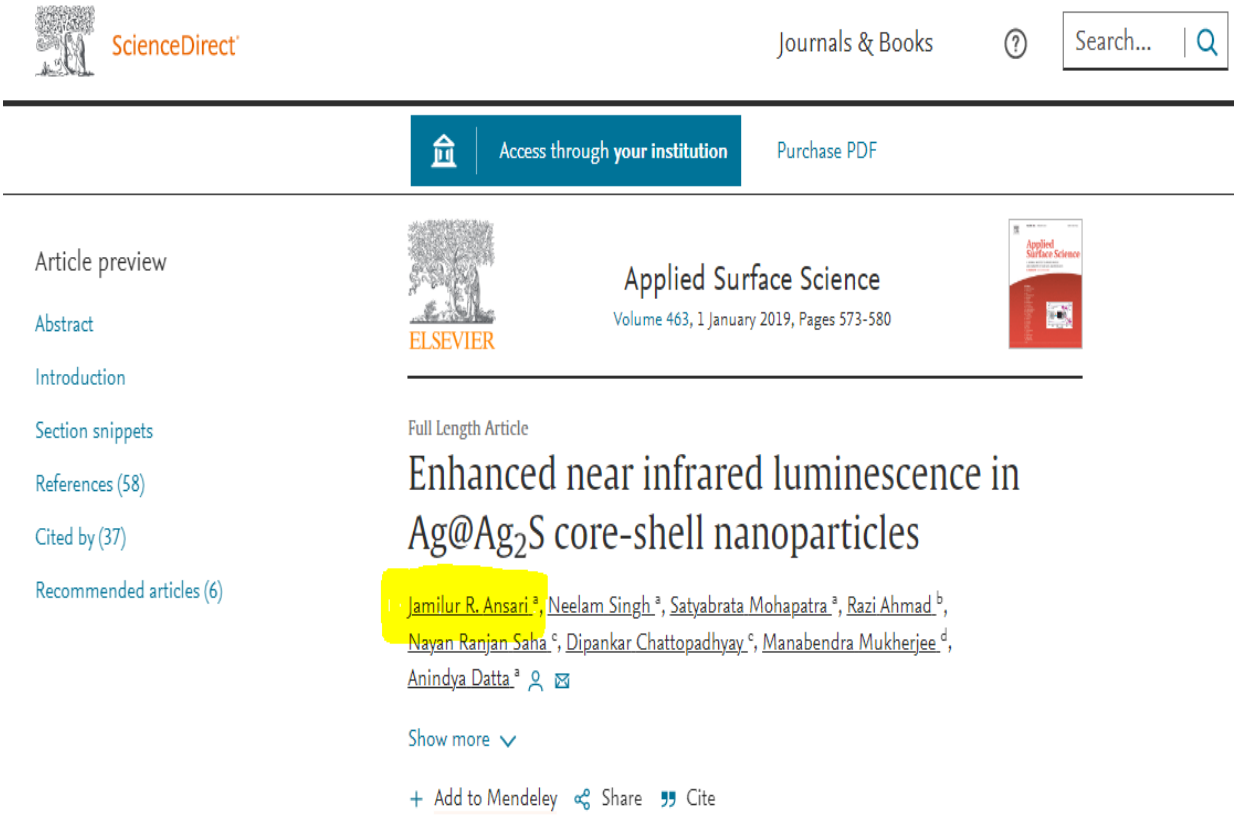
Title of the Paper: Enhanced near infrared luminescence in Ag@Ag2S core-shell nanoparticles

Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: Applied Surface Science



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Applied Surface Science

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Full Length Article

Enhanced near infrared luminescence in $Ag@Ag_2S$ core-shell nanoparticles

Jamilur R. Ansari [a], Neelam Singh [a], Satyabrata Mohapatra [a], Razi Ahmad [b], Nayan Ranjan Saha [c], Dipankar Chattopadhyay [c], Manabendra Mukherjee [d], Anindya Datta [a]

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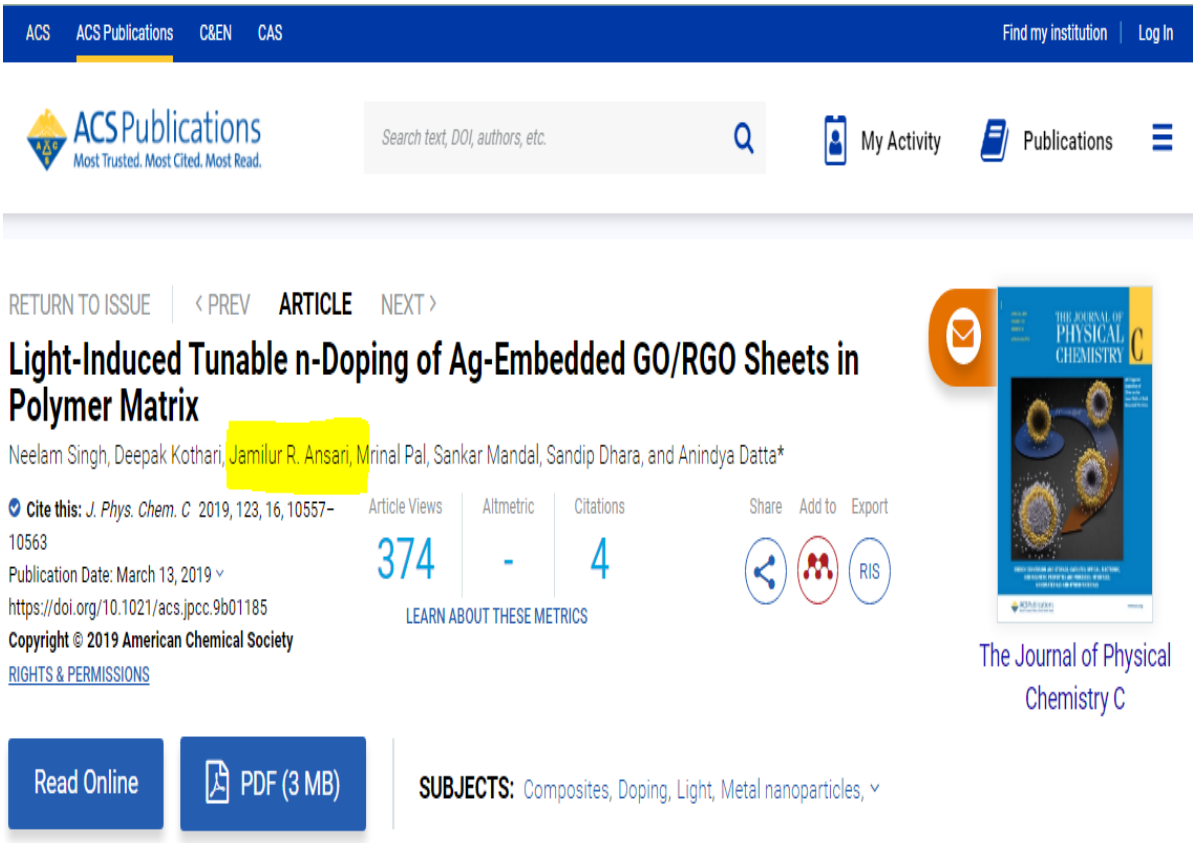
Name of the Author: Dr. JAMILUR Rahman ANSARI

Name of the Journal: The Journal of Physical Chemistry C



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Title of the Paper: Impact of Mountainous Topography on Surface-Layer Parameters During Weak Mean-Flow Conditions

Name of the Author: Surender Dhaka

Name of the Journal: Boundary-Layer Meteorology

Notes and Comments | Published: 14 March 2019

Impact of Mountainous Topography on Surface-Layer Parameters During Weak Mean-Flow Conditions

Raman Solanki, Narendra Singh, N. V. P. Kiran Kumar, K. Rajeev, Ryoichi Imasu & S. K. Dhaka

Boundary-Layer Meteorology **172**, 133–148 (2019) | Cite this article

Abstract

We investigate surface-layer characteristics over a mountainous ridge in the Central Himalayas, utilizing tower-based fast-response micrometeorological observations (at 12 and 27 m above ground level) for the winter months November 2013–January 2014. During this period, the site generally experienced clear skies and weak synoptic flow (wind speed < 2 m s^{-1}), favouring a strong diurnal evolution of the atmospheric boundary layer. The observations show a regular change in wind direction from north-easterly during the night-time to westerly during the daytime throughout the season, indicating the systematic development of a mountain circulation due to changes in heating of the mountain slopes as the

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Title of the Paper: Seasonal and annual variation of AIRS retrieved CO2 over India during 2003–2011

Name of the Author: Surender Dhaka

Name of the Journal: Journal of Earth System Science

Springer Link

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Published: 28 March 2019

Seasonal and annual variation of AIRS retrieved CO_2 over India during 2003–2011

Anju Gupta, S K Dhaka, Y Matsumi, R Imasu, S Hayashida & Vir Singh

Journal of Earth System Science **128**, Article number: 92 (2019) | Cite this article

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Abstract

The present study shows spatio-temporal variability in carbon dioxide (CO_2) in the mid-tropospheric region over India (0–32°N, 60–100°E) during 2003–2011. The CO_2 data used in the study is retrieved from Atmospheric Infra-Red Sounder (AIRS). Analysis of 9 yrs of data shows that the CO_2 exhibits a linear increasing trend of 2.01 ppm/year. Besides displaying the linear increasing trend, data show strong seasonal and annual variability. Concentration of CO_2 is observed to be highest around April–May (summer months), which decreases by 4–5 ppm during the monsoon months. Seasonal decrease in CO_2 concentration appeared to be influenced by the monsoonal activity. Low OLR (proxy of convection) associated with high

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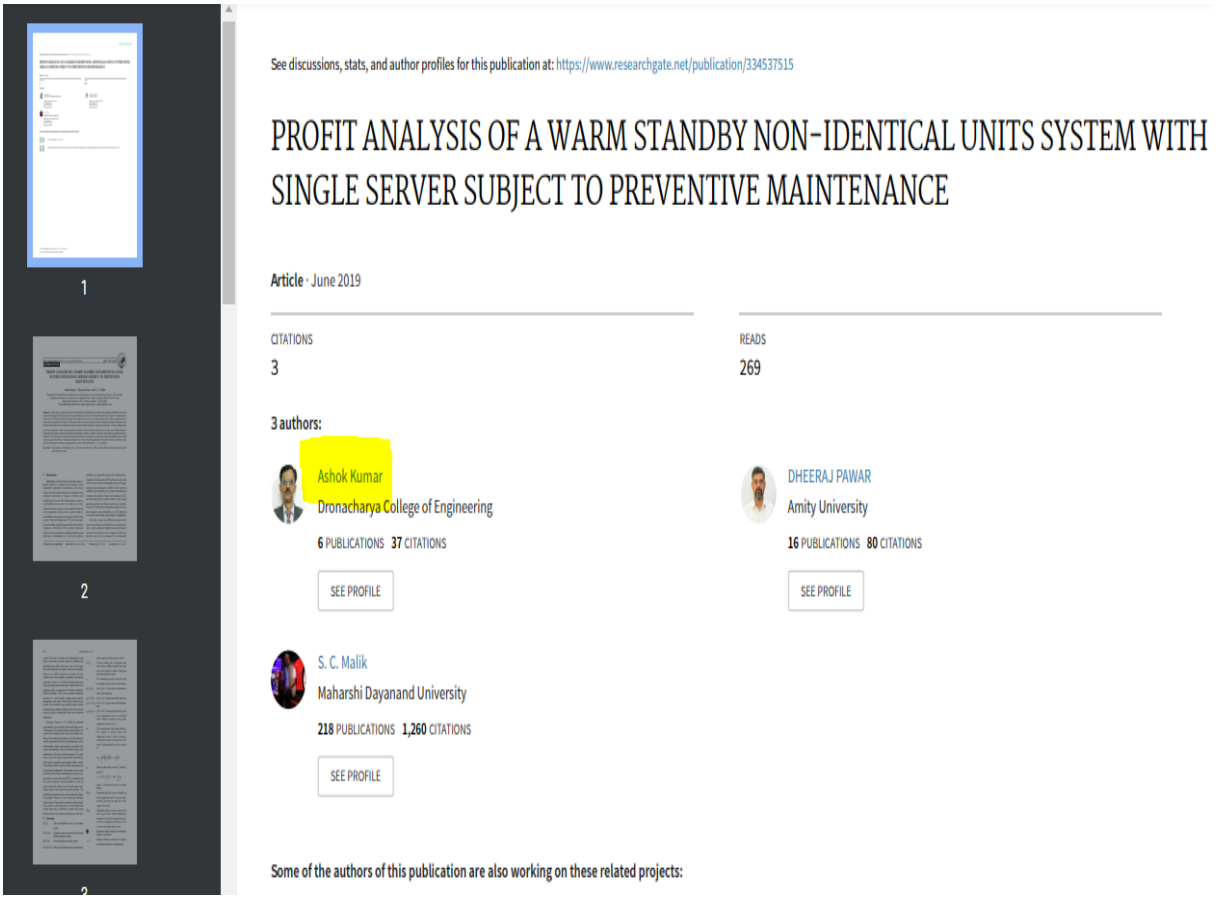
Title of the Paper: PROFIT ANALYSIS OF A WARM STANDBY NON-IDENTICAL UNITS SYSTEM WITH SINGLE SERVER SUBJECT TO PREVENTIVE MAINTENANCE

Name of the Author: Ashok Kumar

Name of the Journal: Int. J. Agricult. Stat. Sci.



PROFIT ANALYSIS OF A WARM STANDBY NON-IDENTICAL UNITS SYSTEM WITH SINGLE SERVER SUBJECT TO PREVENTIVE MAINTENANCE

Principal
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Farrukh Nagar, Gurgaon.

Title of the Paper: Optimal Pattern Synthesis of Thinned and Non-Uniformly Excited Concentric Circular Array Antennas using Hybrid GSA-PSO Technique

Name of the Author: Krishanu KUNDU

Name of the Journal: RADIOENGINEERING, VOL. 28, NO. 2

Optimal Pattern Synthesis of Thinned and Non-Uniformly Excited Concentric Circular Array Antennas using Hybrid GSA-PSO Technique

Rajesh BERA [1], *Krishanu KUNDU* [2], *Narendra Nath PATHAK* [3]

[1] Dept. of ECE, Madanapalle Institute of Technology & Science, Andhra Pradesh, India
[2] Dept. of ECE, Dronacharya College of Engineering, Gurugram, India
[3] Dept. of ECE, Dr. B .C. Roy Engineering College, Durgapur, India

rajeshkiit12@gmail.com, krishanukundu08@gmail.com, narendra.pathak@rediffmail.com

Submitted November 17, 2018 / Accepted April 25, 2019

Abstract. *Side Lobe Level (SLL) is considered as the most significant array pattern parameter as it helps in reducing surrounding noise and interference. As higher SLL value results in higher wastage of power in undesired direction, transmitters of wireless communication systems face serious problems. In this paper, the optimal design of seven different sets of concentric circular antenna arrays (CCAAs) of isotropic antenna has been represented with the goal of maximum reduction in SLL. Optimal pattern synthesis of the proposed arrays has been executed by optimizing the normalized current distributions of array*

1. Introduction

To meet the demand for long-distance communication, it is necessary to design antennas with very high directive (high gain) characteristics. This can be accomplished by increasing the electrical size of the antenna [1]. The best way to enlarge the dimensions of the antenna is to form an assembly of radiating elements in electrical and geometrical configuration where field patterns of individual elements are necessarily constructive or additive in the desired direction and destructive in the other directions.

Principal
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Farrukh Nagar, Gurgaon.

Title of the Paper: Investigation of Erosion and Pressure for Direct and Indirect Acoustic Cavitation Testing

Name of the Author: Sandeep Bansal

Name of the Journal: Journal of Emerging Technologies and Innovative Research

Journal of Emerging Technologies and Innovative Research
(An International Scholarly Open Access Journal, Peer-reviewed, Refereed Journal)
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Title
INVESTIGATION OF EROSION AND PRESSURE FOR DIRECT AND INDIRECT ACOUSTIC CAVITATION TESTING

Authors
Jonty Mago
Sandeep Bansal
Dheeraj Gupta
Vivek Jain

Abstract
In the present work, investigation for erosion and pressure by direct and indirect vibratory cavitation testing of the austenitic stainless steel 316 has been performed. Both Specimens

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Name of the Author: Gayatry Kalita

Name of the Journal: Atmospheric Chemistry and Physics

Atmos. Chem. Phys., 17, 11637–11654, 2017
https://doi.org/10.5194/acp-17-11637-2017

Atmospheric Chemistry and Physics
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Potential impact of carbonaceous aerosol on the upper troposphere and lower stratosphere (UTLS) and precipitation during Asian summer monsoon in a global model simulation

Suvarna Fadnavis[1], Gayatry Kalita[1], K. Ravi Kumar[1,4], Blaž Gasparini[2], and Jui-Lin Frank Li[3]

[1]Indian Institute of Tropical Meteorology, Pune, India
[2]Institute for Atmospheric and Climate Science, ETH Zurich, Zurich, Switzerland
[3]Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA
[4]King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

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Received: 3 March 2017 – Discussion started: 17 March 2017
Revised: 29 August 2017 – Accepted: 29 August 2017 – Published: 28 September 2017

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Title of the Paper: Analytical framework of small-gap photoconductive dipole antenna using equivalent circuit model

Name of the Author: Dr. ISHA MALHOTRA

Name of the Journal: Optical and Quantum Electronics

Analytical framework of small-gap photoconductive dipole antenna using equivalent circuit model

Isha Malhotra, Prabhat Thakur, Shweta Pandit, Kumud Ranjan Jha & G. Singh

Optical and Quantum Electronics **49**, Article number: 334 (2017) | Cite this article

Abstract

A compact planar antenna sources with on-chip fabrication and high directivity in order to achieve large depth-of-field for better image resolution is the prospective demand for THz imaging application. Therefore, the small-gap photoconductive dipole antennas have been explored to fulfil such applications demand. However, there are certain modalities for improving the photoconductive dipole antenna performance which need to identify to accomplish high THz average radiated power and improved total efficiency. The unit-cell small-gap photoconductive dipole antenna radiation power enhancement methods need to optimize the design parameters with photoconductive material selection from theoretical

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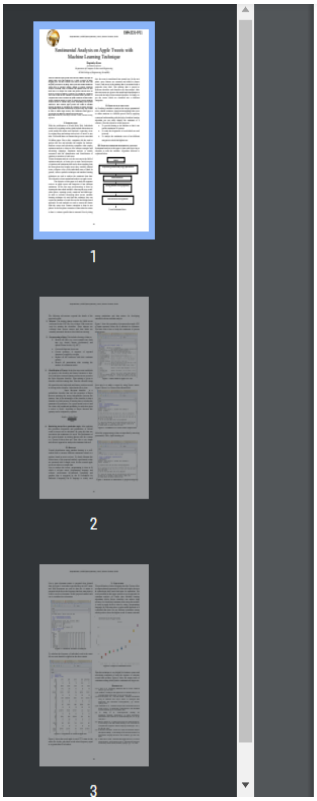

ISSN:2231-0711

Dupinder Kaur | IJCSET(www.ijcset.net) | 2017 | Volume 7 Issue 9, 76-78

Sentimental Analysis on Apple Tweets with Machine Learning Technique

Dupinder Kaur
Assistant Professor
Department of Computer Science and Engineering
JCDM College of Engineering, Sirsa(HR)

Abstract: With the rapid growth of the internet, millions of people are sharing their views and opinions on a variety of topics on micro blogging sites. On these websites user makes real time short and frequent posts about everything. These posts also include Sentiments which refers to emotions, feelings, attitude or opinion. Sentiment analysis is basically study of emotions and opinions from text. The basic idea is to analyze the results and predict outcomes that are based on customer feedback or opinions. It is helpful for consumers who want to find out the sentiment of products before purchase, or companies that want to monitor the public sentiment of their brands. Twitter sentiment analysis is tricky as compared to broad sentiment analysis because it contains slang words, misspellings and repeated characters. This research paper present the results of machine learning algorithms by classifying the sentiment of Twitter messages using distant supervision with the help of preprocessing steps needed in order to achieve high accuracy. The conclusion of this paper is presented by ten different sentiments from data taken.

Keywords: Sentiments, Naive Bayes Classifier. Twitter, Machine learning algorithm.

this, the tweet is transformed into normal text. In the next phase, more features are extracted and added to feature vector. Each tweet in the training data is associated with a particular class label. This training data is passed to different classifiers and classifiers are then trained. After this test tweets are given to the model and classification is done with the help of these trained classifiers. So finally we get the tweets which are classified into n different categories.

II. Objectives of the Study

As Teaching a machine to analyze the various grammatical rules, cultural variations, slang and misspellings that occur in online mentions is a difficult process. But by applying contextual understanding with the help of machine learning algorithm one can easily identify the sentiment of a

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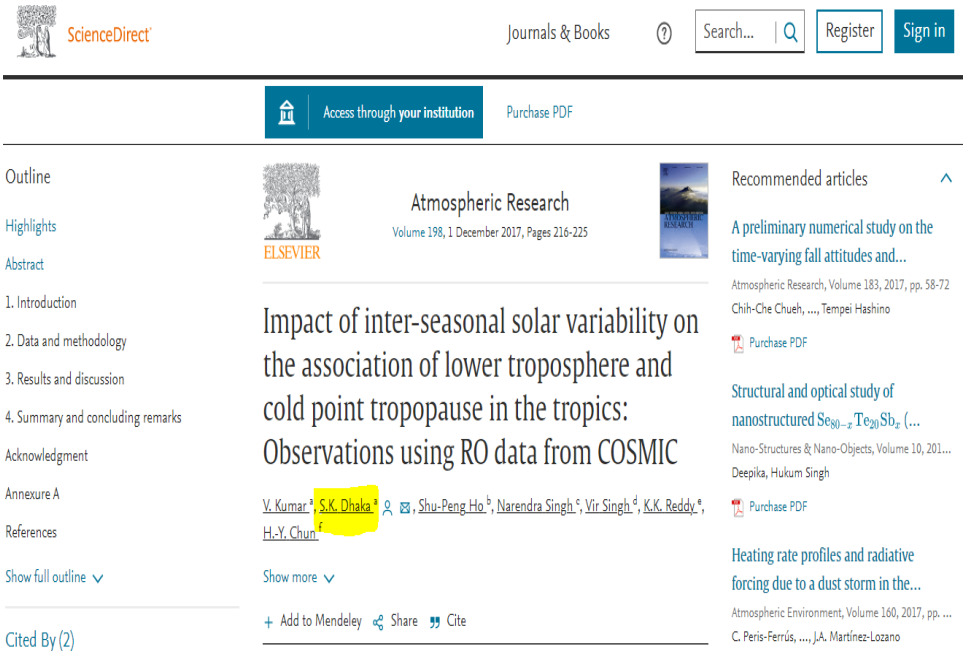
Name of the Journal: Atmospheric Research



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V. Kumar [a], S.K. Dhaka [a], Shu-Peng Ho [b], Narendra Singh [c], Vir Singh [d], K.K. Reddy [e], H.-Y. Chun [f]

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Amorphous thin films of $Se_{80-x}Te_{20}Sb_x$ (x=0, 6, 12) chalcogenide glasses has been deposited onto pre-cleaned glass substrate using thermal evaporation technique under a vacuum of 10^{-5}Torr. The absorption and transmission spectra of these thin

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Name of the Author: Deepika, Hukum Singh

Name of the Journal: MAPAN-Journal of Metrology Society of India

Original Paper | Published: 04 December 2017

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Deepika & Hukum Singh

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Abstract

The present paper aims at the study of size distribution of particles in nanostructured $Se_{58}Ge_{39}Pb_3$ glass using X-ray diffraction (XRD), Transmission electron microscopy (TEM) and UV–visible spectrophotometer. The thin film sample has been prepared using melt quenching technique and inert gas consolidation method. The particle size distribution obtained from XRD and UV–Vis spectrophotometer shows more uncertainty than the results obtained from TEM measurements. The absorption spectra recorded on UV–Vis spectrophotometer is employed to get band gap values corresponding to different size

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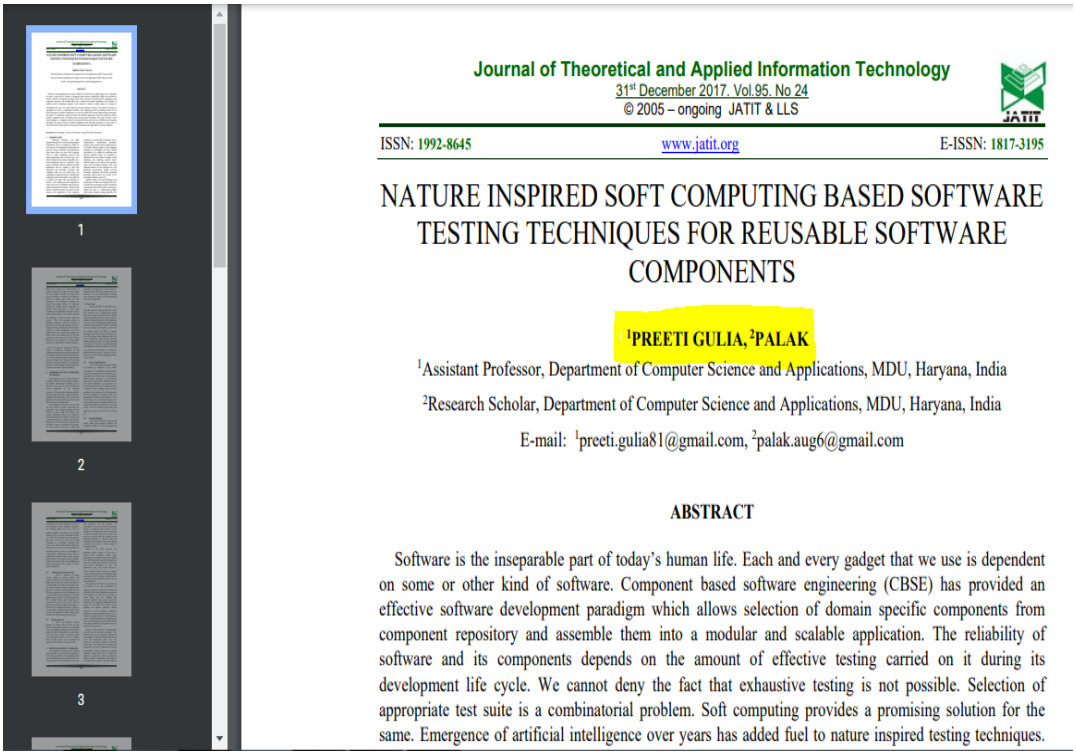

Journal of Theoretical and Applied Information Technology
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ISSN: 1992-8645 www.jatit.org E-ISSN: 1817-3195

NATURE INSPIRED SOFT COMPUTING BASED SOFTWARE TESTING TECHNIQUES FOR REUSABLE SOFTWARE COMPONENTS

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ABSTRACT

Software is the inseparable part of today's human life. Each and every gadget that we use is dependent on some or other kind of software. Component based software engineering (CBSE) has provided an effective software development paradigm which allows selection of domain specific components from component repository and assemble them into a modular and scalable application. The reliability of software and its components depends on the amount of effective testing carried on it during its development life cycle. We cannot deny the fact that exhaustive testing is not possible. Selection of appropriate test suite is a combinatorial problem. Soft computing provides a promising solution for the same. Emergence of artificial intelligence over years has added fuel to nature inspired testing techniques.

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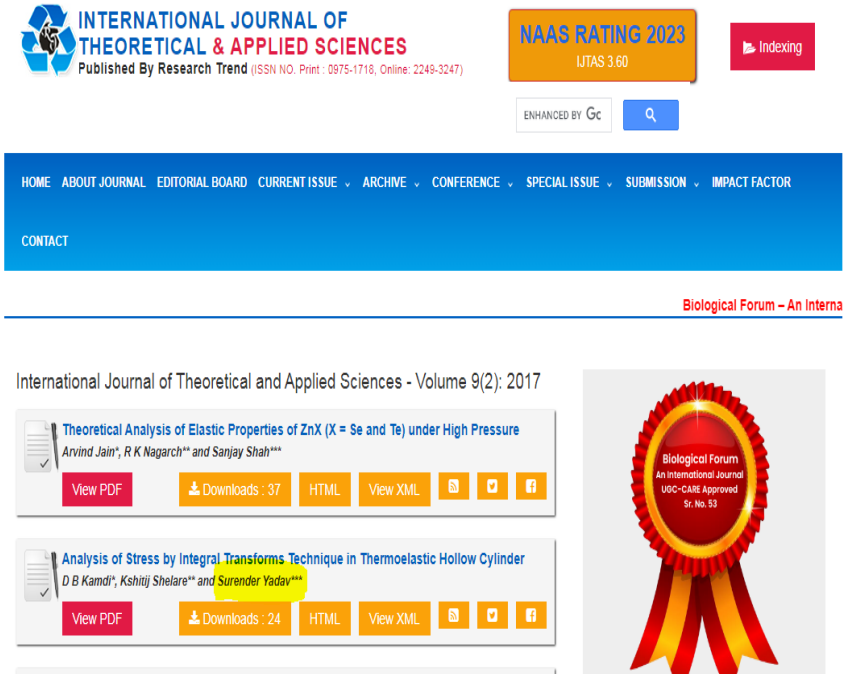

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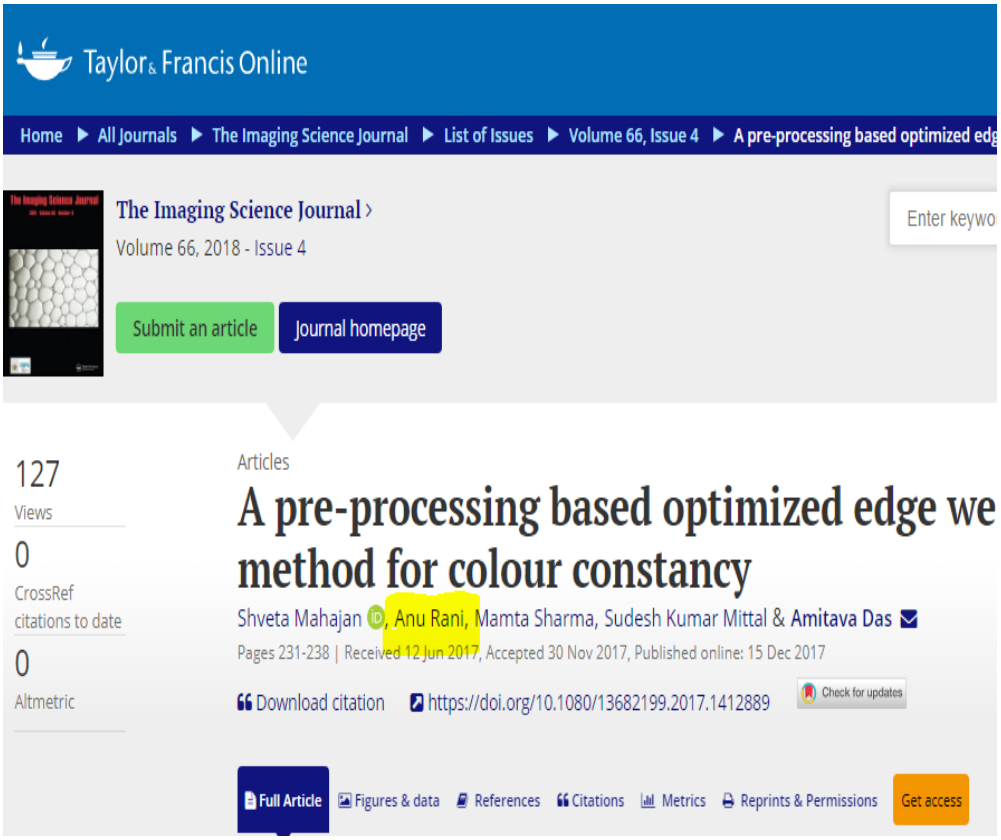

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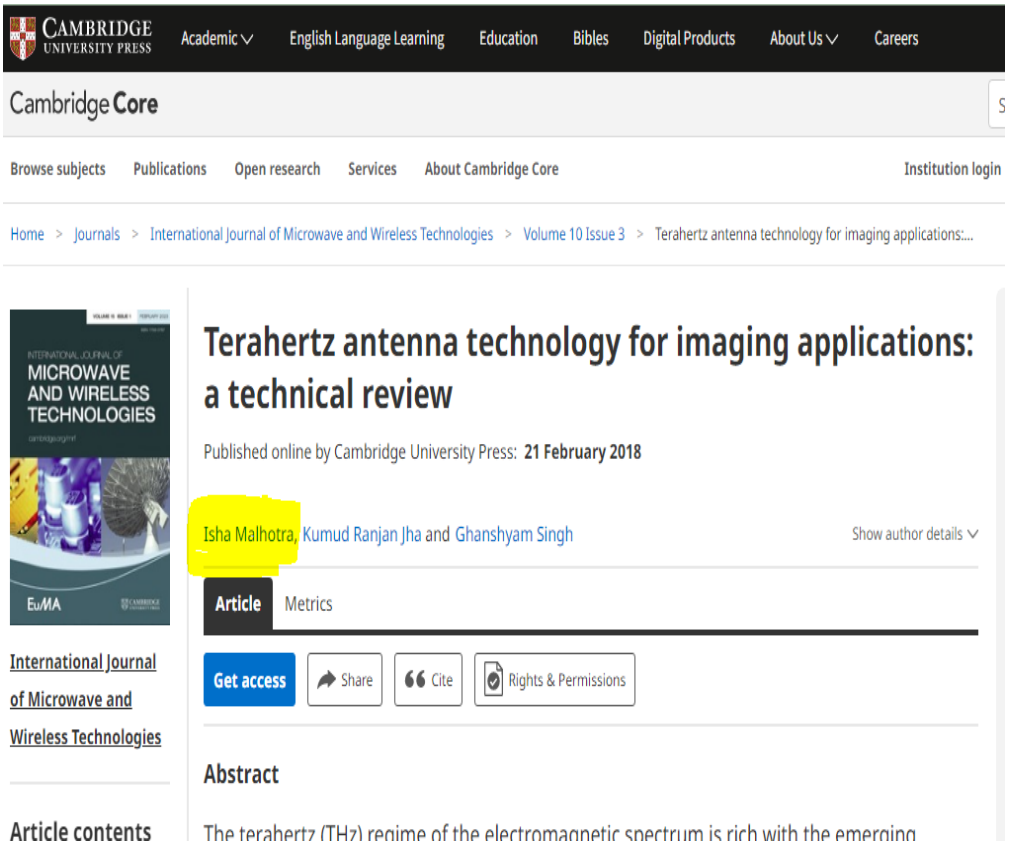

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Abstract

The present paper aims at the study of size distribution of particles in nanostructured $Se_{58}Ge_{39}Pb_3$ glass using X-ray diffraction (XRD), Transmission electron microscopy (TEM) and UV–visible spectrophotometer. The thin film sample has been prepared using melt quenching technique and inert gas consolidation method. The particle size distribution obtained from XRD and UV–Vis spectrophotometer shows more uncertainty than the results obtained from TEM measurements. The absorption spectra recorded on UV–Vis spectrophotometer is employed to get band gap values corresponding to different size

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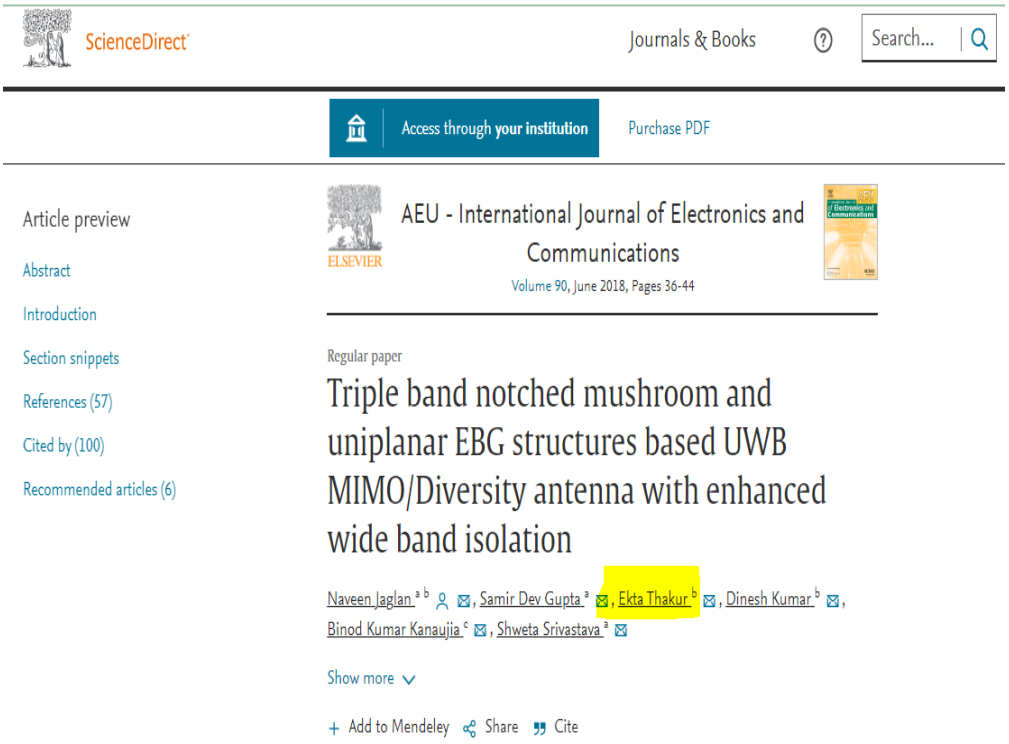

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Name of the Journal: International Journal of Microwave and Optical Technology

Manuscript Title:	Compact Microstrip Antenna Design at 60 GHz for Next Generation Communication Systems
Manuscript Id:	IJMOT-2017-12-1462
Abstract:	A 60 GHz unlicensed spectrum promises high-bandwidth for the commercial wireless communication applications. In this work, a rectangular microstrip patch antenna at 60 GHz using inset feeding is designed for the next generation communication system. The suggested antenna will transfer audio and video data up to few gigabits per second. The return loss is found to be 24.77 dB at the operating frequency. The gain and directivity achieved at resonant frequency is 7.654 dB and 7.580 dBi respectively. In addition, slots are introduced to increase the bandwidth of this antenna. Furthermore, the results obtained by C shaped slot and circular ring are optimized. The bandwidth achieved by using C shaped slot is 0.9631 GHz and the bandwidth achieved by using circular ring is 1.005 GHz. The proposed design is designed on low budget RT/duroid 5880 substrate with overall extent as (3.43×3.83×0.04) mm3.
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Name of the Author: Dr. Soniya Kumari

Name of the Journal: Journal of Computational Chemistry

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Free energy landscapes of prototropic tautomerism in pyridoxal 5'-phosphate schiff bases at the active site of an enzyme in aqueous medium

Kumari Soniya, Amalendu Chandra

First published: 14 May 2018 | https://doi.org/10.1002/jcc.25338 | Citations: 9

Abstract

We have performed hybrid quantum-classical metadynamics simulations and quantum chemical calculations to investigate the free energy landscapes of intramolecular proton transfer and associated tautomeric equilibrium in pyridoxal 5′-phosphate (PLP) Schiff Bases, namely the internal and external aldimines, at the active site of serine hydroxymethyltransferase (SHMT) enzyme in aqueous medium. It is important to determine the relative stability of the two tautomers (ketoenamine and enolimine) of the PLP aldimines to study the catalytic activity of the concerned enzyme. Both the internal PLP aldimine (PLP-LYS) and the external PLP aldimine (PLP-SER) of SHMT are found to

Volume 39, Issue 21
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A Detailed Software Model Analysis

Author(s):

Nitika Redhal , Dronacharya college of engineering

Keywords:

Comparative Analysis of Software Models, Software Development, Software Development Models, Software Life Cycle Models

Abstract

Software's move along a series of transitions involving their commencement, early development, productive operations, maintenance and repairs as well as retirement. For this, there are a multiple techniques that are applied which are known as software process models or software life cycle models. This paper represents five most widely implemented models namely Waterfall, Incremental, Spiral, V-Shaped and Agile. The main objective of this paper is to elaborate these models and also to list their advantages, disadvantages and when to use which one.

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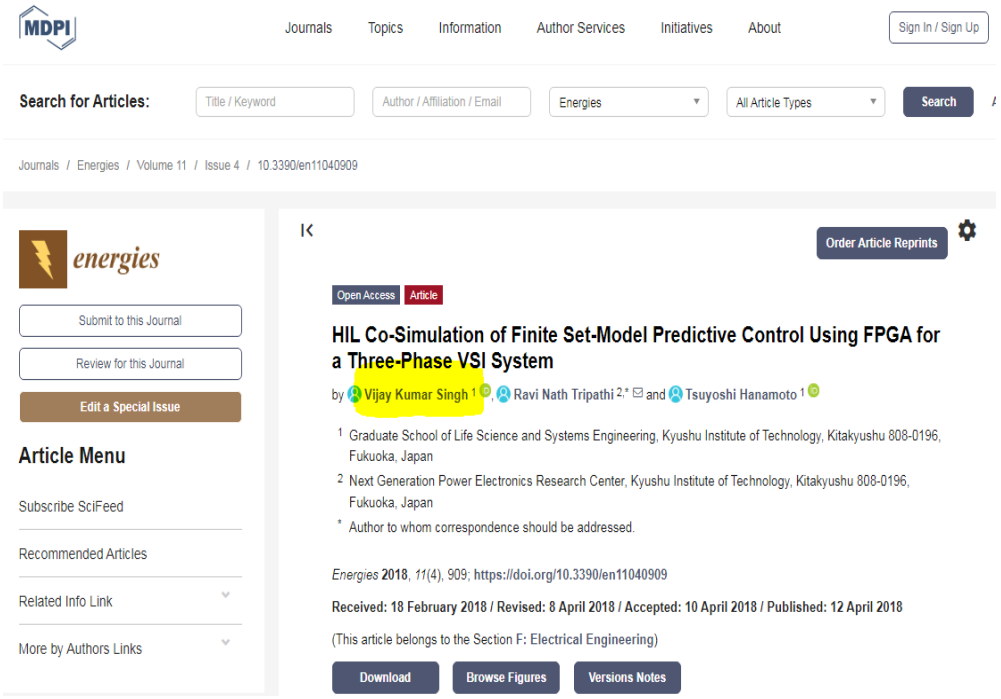

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A Survey on Virtual Machine Scheduling Algorithms in Cloud Computing

M. Kumar[1], Suman [2], S. Singh[3]

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Section:Survey Paper, Product Type: Journal Paper
Volume-6 , Issue-3 , Page no. 485-490, Mar-2018

CrossRef-DOI: https://doi.org/10.26438/ijcse/v6i3.485490

Online published on Mar 30, 2018

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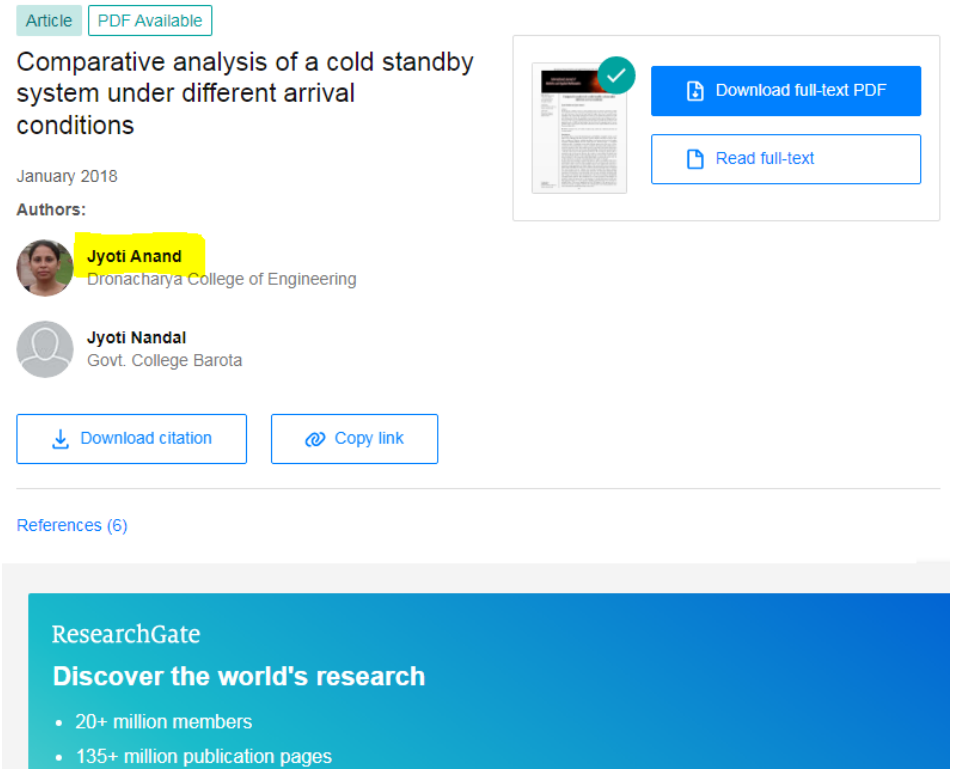
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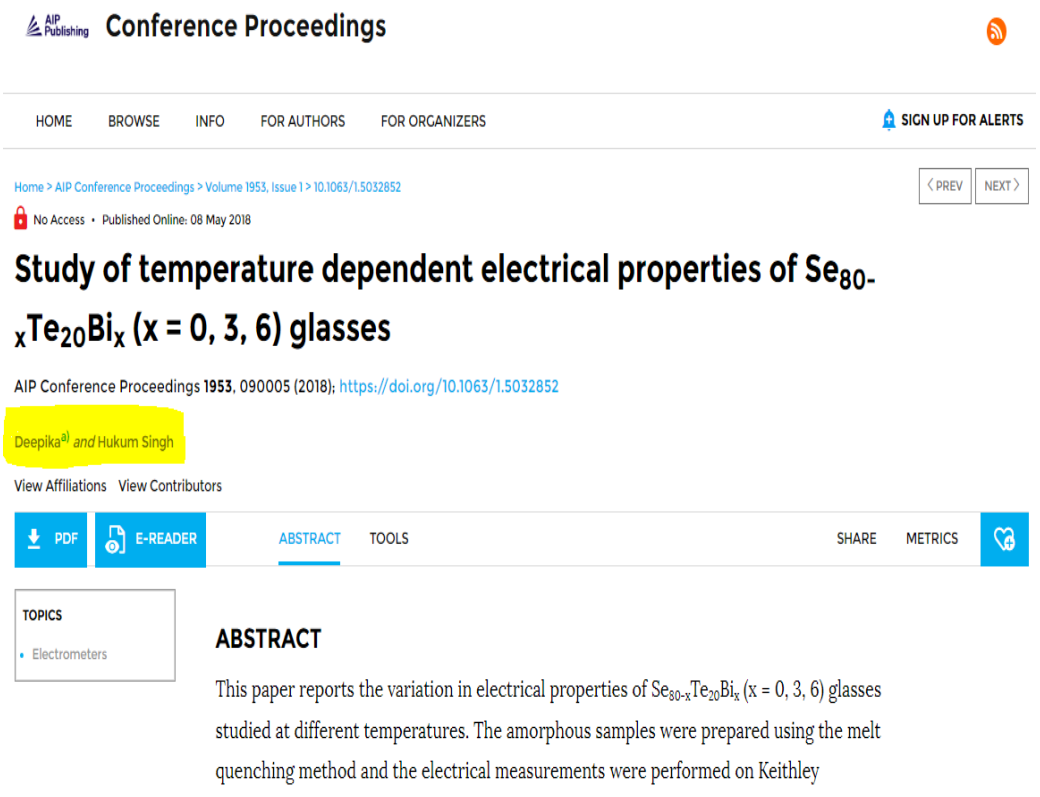
Name of the Journal: AIP Conf. Proc.



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Study of temperature dependent electrical properties of $Se_{80-x}Te_{20}Bi_x$ (x = 0, 3, 6) glasses

AIP Conference Proceedings **1953**, 090005 (2018); https://doi.org/10.1063/1.5032852

Deepika[a] *and* Hukum Singh

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ABSTRACT

This paper reports the variation in electrical properties of $Se_{80-x}Te_{20}Bi_x$ (x = 0, 3, 6) glasses studied at different temperatures. The amorphous samples were prepared using the melt quenching method and the electrical measurements were performed on Keithley

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Name of the Author: Deepika, Hukum Singh

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Name of the Author: Dr. Jyoti Anand

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2018, Vol. 3, Issue 1, Part C

Profit comparison of a cold standby system with Priority to repair over preventive maintenance and server failure during repair

Author(s): Jyoti Nandal and Jyoti Anand

Abstract: The main motive of this present paper is to analyze the comparison between two reliability models. For that, one unit is operative and the other unit is kept as spare in cold standby. The operative unit undergoes for preventive maintenance before its complete failure while repair of the unit is conducted at its complete failure. Also, Priority is given to repair of the unit over preventive maintenance. All repair activities are tackled by a single server who visits the system immediately when required and the server may failure during repair only. All random variables are uncorrelated and statistically independent to each other. The distributions of failure time of the unit and server follows negative exponential while the distributions of repair time of the unit and treatment time of the server are taken as arbitrary. The expressions for various measures of system effectiveness are derived in steady state using semi-Markov process and regenerative point technique. The graphical behavior of MTSF, availability and profit function with respect to failure rate for fixed values of other parameters. The profit comparison of the

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Name of the Author: Ms. Ashima Mehta

Name of the Journal: IJAER

International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 2 (2018) pp. 942-946

Design of Infrastructure as a Service (IAAS) Framework with Report Generation Mechanism

Ms. Ashima Mehta[1] and Dr. S.N. Panda[2]

[1]Assistant Professor, Computer Science & Engineering, MMU University, Mullana (Ambala), India.

Orcid Id: 0000-0003-2437-3744

[2]Director Research, Chitkara University, Rajpura, India.

Abstract

Cloud computing in short can be defined as "internet based computing", which makes users able to access software applications whenever they need without worrying about storage or power. In today's modern era, cloud computing has become a very interesting technology, providing services to its users on demand over the internet. Cloud technology is an emerging topic after grid in the evolution of distributed computing. Due to its capability of storing data as well as its disseminated resources, security has become the main issue for deploying cloud environments. It gives the user an idea of using infrastructure without managing it. Some security issues include data leakage, data crash, resource sharing, service. Through cloud computing, we can access IT resources with the help of internet. With the help of cloud computing, IT resources have increased and become more popular than other computing techniques.

BACKGROUND

Cloud Key Characteristics

i. Measured Service: - It is observed by the performance escorted by pay-as-you-go pricing model.

ii. Self-service on demand: - Any user can perform self-

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Title of the Paper: Magnesium ion-conducting gel polymer electrolyte nanocomposites: Effect of active and passive nanofillers

Name of the Author: Dr. JYOTI SHARMA

Name of the Journal: Polymer Composites

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POLYMER COMPOSITES

Volume 40, Issue 4
April 2019
Pages 1295-1306

Article

Magnesium ion-conducting gel polymer electrolyte nanocomposites: Effect of active and passive nanofillers

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First published: 25 March 2018 | https://doi.org/10.1002/pc.24853 | Citations: 23

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Abstract

A novel magnesium (Mg) ion conducting nanocomposite gel polymer electrolyte (GPE) films comprising a solution of Mg-salt, Mg trifluoromethanesulfonate [Mg-triflate or

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Title of the Paper: Actuating Soft-Skills through E-Learning in Higher Education

Name of the Author: Dr. Parul Mishra

Name of the Journal: Journal of Advances and Scholarly Researches in Allied Education

May 30, 2018

Journal article | Open Access

Actuating Soft-Skills through E-Learning in Higher Education

Mishra, Sunil K; Mishra, Parul

Higher education and skill development play a vital in the development of an individual as well as the whole society. Presently, education is closely connected with employability where soft skills are regarded as pre-requisites. Soft skills refer to a cluster of personal qualities, habits, attitudes that contribute to become an employable and a successful professional. Good communication skills are indispensable asset of a profession. Listening, Speaking, Writing and Reading skills (LSWR) are undoubtedly regarded as cornerstone of success in a profession and also determiners of a person's competency to fit into a particular ambience that is another objective of Higher education in the modern times. According to Daneil Goleman, soft skills contribute to a person's ability to manage himself or herself and relate to other people. These skills matter twice as much as Intelligent Quotient(IQ) or technical skills in employability. Excellence in education demands the education of necessary skills in order to make the masses self-sufficient, employable or entrepreneurs. It is time for teachers, trainers and stakeholders to incorporate soft skills in their education and its practice because imparting soft skills would preferably aim at the individual's competencies not only to collect and transform knowledge. It also reflects on the complexity and interrelations of behaviour as well as decision-making in a futuristic and global perspective.The present paper focuses on the issues and concerns related to soft skills and entrepreneurship in higher education.

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