

Department of Engineering Sciences and Humanities (DESH)

Faculty Research Journal Publications (2008 onwards)

Sr. No	Title of the publication	Primary Author	Secondary Author(s)	Name of the Journal	Impact Factor	National/ International	Peer Reviewed? (Yes/ No)	Is it an e-journal?	Area of Specialization	Month of publication	Date of publication	Volume	Edition No.	ISBN/ ISSN
1	Characteristics of Surface Ozone Levels at Climatologically and Topographically Distinct Metropolitan Cities in India	Ganesh Kutal,	Amol Kolhe, Chandrashekhar Mahajan , Sandeep Varpe, Rupesh Patil, Prayagraj Singh, G.R.Aher	Asian Journal of Atmospheric Environment,	1.6	International	Yes	Yes	Atmospheric Environment	June 2022	June 2022	, 16	2	19766912, 22871160
2	Annual and Inter-annual Variability Coupled with Comparison of MODIS-AERONET	Sandeep Varpe,	Amol Kolhe, Ganesh Kutal, Prayagraj Singh, Chandrashekhar Mahajan ,	Aerosol Science and Engineering	1.46	International	Yes	Yes	Atmospheric Physics , Aerosol, Environment	March 2022	26th March 2022	6	2	2510375X, 25103768

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	Retrieved Aerosol Optical Depth over a Rural Site in the Central Indo-Gangetic Basin		R.S. Patil, P. Prasad, Rupesh Patil,, G.R.Aher											
3	UV Erythemat Radiation and Its Sensitivity to Changes in Total Column Ozone and Aerosols	Ganesh Kutal,	Amol Kolhe, Sandeep Varpe, Chandrashekhar Mahajan, ,Prayagraj Singh, G.R.Aher	Aerosol Science and Engineering	1.46	International	Yes	Yes	Atmospheric Physics , Aerosol, Environment	March 2022	26th March 2022	6	2	2510375X, 25103768
4	Rapid Wet Chemical Synthesis of Cuprous Oxide (Cu ₂ O) Nanoparticles: Effect of Precursor Concentration	Sachin Sawant	Chandrashekhar Mahajan,	Journal of Nano-and Electronic Physics	0.67	International	Yes	Yes	Physics and its applications, nano Material	April 2022	29th April 2022	14	2	ISSN 2077-6772(Print) 2306-4277 (online)
5	Precursor molarity	Chandrashekhar Mahajan	M.G.Takawale	Micro and Nanostructures	1-099	International	Yes	Yes	Science and Technology of Micro & Nanostructures	March 2022	March 2022	163		2773-0123

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	dependent growth rate, microstructural, optical and electrical properties of spray pyrolytically deposited transparent conducting ZnO thin films													
6	Aerosol–Cloud Interaction over South-Central India and Adjoining Coastal Areas	Sandeep Varpe,	Chandrashekhar Mahajan, Amol Kolhe, Ganesh Kutal, K. Budhavant Prayagraj Singh, , G.R.Aher	Aerosol Science and Engineering	1.46	International	Yes	Yes	Atmospheric Physics , Aerosol, Environment	23 rd January 2022	23 rd January 2022	6	-	2510375X, 25103768
7	Time Line Correlative Spectral Processing for Stratification of Blood Pressure using Adaptive Signal Conditioning	Santosh Shinde	Pothuraju RajaRajeshwari	(IJACSA) International Journal of Advanced Computer Science and	1.092	International	Yes	Yes	Machine Learning	October 2021	31 October 2021	12	10	ISSN : 2156-5570 (Online) ISSN : 2158-107X (Print)

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				Applicatio ns										
8	Transmission State Prediction from MAC in Cognitive Radio via Optimized Deep Learning Architecture	Kiran More	Rajendrakumar A Patil	International Journal of Pattern Recognition and Artificial Intelligence	1.345	International	Yes	Yes	Computer & AI	May 2021	29/05/2021	35	9	0218-0014
9	Spectrum Selection Methods for Throughput Enhancement and QoS in Cognitive Radio Networks	Pradnya V. Kulkarni		TEST Engineering and Management		International	Yes	Yes	Engineering and Management	May-June 2020	May-June 2020	83	-	0193-420
10	Emotion Detection based on images and Captions on social media	Kanchan M.Varpe,	M. L. Dhore	TEST Engineering and Management		International	YES	Yes	Computer	May June 2020	May June 2020	83		ISSN 0193-4120
11	Secure Deduplication of Encrypted Data in Cloud	M. L. Dhore	Kanchan M.Varpe, R.M.Dhore	International Journal of Future Generation Communication and	0.40	International	Yes	Yes	Computer Science, Communication, Networking	April 2020	1/04/2020	13	1	1594-1600

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				Networkin g										
12	A Review of Scene Text Recognition Systems for Blind	Kanchan M. Varpe	M. L. Dhore	Internatio nal Journal of Advanced Science and Technolog y	0.4 1	International	Yes	Yes	Computer Science,	April 2020	01/04.2020	29	9s	2316-2323
13	Wet Chemical Synthesis of Entangled Nano-fibrous Conducting Polyaniline (PANI) Mesh: Effect of Heating and Stirring	Chandrashekhar M. Mahajan	Sachin S. Sawant	Journal of Wuhan University of Technology-Mater. Sci. Ed.	0.6 05	International	Yes	Yes	Material Science	December 2019	16/04/2020	34 Issue 6		1000-2413
14	A modified neuro-fuzzy classifier and its parallel implementation on modern GPUs for real time intrusion detection	Nilam Upasani	Hari Om	Applied Soft Computing	4.8 7	International	Yes	Yes	Soft computing	June 2019	26/06/2019	82		1568-4946
15	Optimized Fuzzy min-max neural network: an efficient approach for	Nilam Upasani	Hari Om	Neural Network World	0.6 4	International	Yes	Yes	Computer Science, Neural network ,Artificial Intelligence	August 2018	10/8/2018	28	4	ISSN 12100552, 23364335

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	supervised outlier detection													
16	Parametric Multi-Wavelets on a Hexagonal Sampling Lattice	H. Bhate	Rupali Deshpande	Results in Mathematics	0.642	International	Yes	Yes	Pure and Applied mathematics	March 2018	26 February 2018	73	49	Online ISSN 1420-9012, Print ISSN 1422-6383
17	Some Crystallographic Haar Type Composite Dilation Wavelets For $P_4 = C_4 \times Z^2$	Rupali Deshpande	H. Bhate	International Journal of Wavelets, Multiresolution and Information Processing	0.463	International	Yes	Yes	Wavelets	January 2018	17 January 2018	19	03	ISSN (print): 0219-6913 ISSN (online): 1793-690X
18	Indoor power generation by vaseline glass plate doped with non Fermi liquid behavior of electron metals (UXTH1-XPDS12-, $X < 0.07$)	A.M.Moolchandani	_____	IAETSD Journal for Advanced Research in Applied Sciences.	5.2	International	_____	_____	Solid state physics	July 2017	July 2017	4	2	2394-8442
19	Solar Photocatalytic Degradation of Methylene Blue	B G Ankamwar	VB Kamble, JI Annsi, LS Sarma,	Journal of Nanoscience and	1.483	International	Yes	Yes	Physics and its applications, nano Material	February 2017	February 2017	17 (2),	1185-1192	ISSN: 1533-4880 (Print); EISSN: 1533-4899 (Online)

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	by ZnO Nanoparticles,		CM Mahajan,	Nanotechnology										
20	Spray Deposited Nanocrystalline ZnO Transparent Electrodes: Role of Precursor Solvent,	C.M. Mahajan	M Pendharkar, YA Chaudhari, SS Sawant, B Ankamwar, M. G. Takwale	Journal of Nano-and Electronic Physics	0.3 16	International	Yes	Yes	Physics and its applications, nano Material	August 2017	August 2016	8 (2),	02026 (5 pages)	ISSN 2077-6772(Print) 2306-4277 (online)
21	Synthesis of Cuprous Oxide (Cu ₂ O) Nanoparticles – a Review	S.S.Sawant	A.D. Bhagwat, C.M. Mahajan	Journal Of Nano- And Electronic Physics	0.3 16	International	Yes	Yes	Physics and its applications, nano Material	March 2016	15 March 2016	Vol. 8	No 1 01035-(1-5)	ISSN 2077-6772(Print) 2306-4277 (online)
22	Novel Facile Technique for Synthesis of Stable Cuprous Oxide (Cu ₂ O) Nanoparticles- an Ageing Effect,	SS Sawant,	AD Bhagwat, CM Mahajan,	Journal of Nano-and Electronic Physics	0.3 16	International	Yes	Yes	Physics and its applications, nano Material	March2601	March 2016	8 (1),	1036-1	ISSN 2077-6772(Print) 2306-4277 (online)
23	Facile Rapid Synthesis of Polyaniline	AD Bhagwat,	SS Sawant,	Journal of Nano-and	0.3 16	International	Yes	Yes	Physics and its applications, nano Material	March 2016	March 2016	8 (1),	1037-1	ISSN 2077-6772(Print)

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	(PANI) Nanofibers		CM Mahajan,	Electronic Physics										2306-4277 (online)
24	Performance Of Masonic Solar Still With Box Type Internal Condenser In Summer Climate	Mahesh D. Joshi	Sandeep R. Kumbhar Madhav G. Jadhav	International Journal Of Innovations In Engineering Research And Technology [Ijiert]	1	International	No	No	Water Desalination	February 2016	2/27/2016	1	1-4	ISSN: 2394-3696
25	Performance of Masonic Solar Still with Tube Type Internal Condenser in Summer Climate	Sarika S.Panpatil,	Sandeep R.Kumbhar	International Engineering Research Journal	1	International	No	No	Water Desalination	February 2016	February 2016	V 2 Issue 1	63-66	ISSN 2395-1621
26	Synthesis of Nanostructured Tin Oxide (SnO ₂) Powders and Thin Films by Sol-Gel Method,	AD Bhagwat,	SS Sawant, CM Mahajan,	Journal of Nano-and Electronic Physics	0.316	International	Yes	Yes	Physics and its applications, nano Material	December 2016	December 2015	7 (4),	4037-1	ISSN 2077-6772(Print) 2306-4277 (online)

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27	Ferroelectric, magnetic and dielectric properties of Nanocrystalline $\text{BiFe}_{1-x}\text{Ni}_x\text{O}_3$ ($x = 0-0.15$) perovskite ceramics,	Y Chaudhari,	CM Mahajan , A Singh, P Jagtap, R Chatterjee, S Bendre,	Journal of Magnetism and Magnetic Materials	2.63	International	Yes	Yes	Physics and its applications, nano Material	December 2015	December 2015	395	(329-335)	ISSN: 0304-8853
28	Buckling and Post-buckling of stiffened composite shell: Prediction and Optimization	Sagar A Kulkarni	Shaikh Firoz Ahmed	Journal of Material Science and Mechanical Engineering	3.785	International	No	Yes	Composite Materials	April 2015	April 2015	2		2393-9095
29	Investigation on Cutting Force and Vibration Signals in Turning: Mathematical Modeling Using Response Surface Methodology	Vishal Wayal	Nitin Ambhore , Satish Chinchani kar , Virendra Bhokse	Journal of Mechanical Engineering and Automation		International	No	Yes	Material science and analysis	February 2015	13th February 2015	5(3B)		2163-2413

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30	Synthesis and characterization of pure and doped nanocrystalline BiFeO ₃ ceramics by SHS,	Y. Chaudhari,	C.M. Mahajan, S.T. Bendre,	Ceramics Silikáty	0.485	International	Yes	Yes	Physics and its applications, nano Material	December 2015	December 2014	58(1)	65-69	ISSN 0862-5468 (Print), ISSN 1804-5847 (online)
31	“Synthesis and Characterization of Magnetite/Poly vinyl Alcohol Core–Shell Composite Nanoparticles”	Rajnish Kurchania	Sachin S. Sawant and Richard J. Ball	Journal of the American Ceramic Society	2.841	International	Yes	Yes	Physics and its applications, development, fabrication and application of ceramic and composites, materials	October 2015	2014	Vol 97, Issue 10	3208–3215	ISSN 1551-2916
32	Big data management of cyberphysical multilocation chemical factory	Abhishek N.Kulkarni	Anita S.Joshi, Satish R.Inamdar	International Journal of Industrial Electronics and Electrical Engineering	1.02	International		Yes	Computer applications	August 2014	August 2014	Vol 2 Issue 8	9-12	ISSN : 2347-6982
33	Design and FEA based Optimization of Machine Component	Neeraj Pophale	Prashant Anerao	International Inventive Multidisciplinary	--	International	yes	yes	Finite Element	July 2014	July 2014	Vol II Issue VII		2348-7135

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				plinary Journal										
34	Intermittent Spray Pyrolytic Growth of Nanocrystalline and Highly Oriented Transparent Conducting ZnO Thin Films: Effect of Solution Spray Rate,	C M Mahajan,	MG Takwale	Journal of Alloys and Compoun ds	3.1 33	International	Yes	Yes	Physics and its applications, nano Material	January 2014	Jan 2014	584,	128- 135	ISSN: 0925- 8388
35	An Influence of Deposition Temperature on Structural, Optical and Electrical Properties of Sprayed ZnO Thin Films of Identical Thickness,	C M Mahajan,	MG Takwale	Current Applied Physics	1.9 71	International	Yes	Yes	Physics and its applications, nano Material	December 2014	December 2013	13 (9)	2109- 2116	ISSN: 1567- 1739 E-ISSN: 1567-1739

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36	Multiferroic properties in Zn, Ni co-doped BiFeO ₃ ceramics by solution combustion method (SCM),	YA Chaudhari,	A Singh, CM Mahajan , P Jagtap, E Abuassaj, R Chatterjee, S Bendre,	Journal of Magnetism and Magnetic Materials	2.63	International	Yes	Yes	Physics and its applications, nano Material	December 2014	December 2013	347,	153	ISSN: 0304-8853
37	Comparison of fuzzy - neural clustering based outlier detection techniques	Nilam upasani	Dr. Hari Om	International Journal of Computer Engineering & Technology (IJCET)	6.13	International	Yes	Yes	Computer Engineering & Technology	July-August 2013	July-August 2013	4	4	0976 – 6375

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38	Ferroelectric and dielectric properties of nanocrystalline BiFeO ₃ multiferroic ceramics synthesized by solution combustion method (SCM),	YA Chaudhari,	CM Mahajan , EM Abuassaj, PP Jagtap, PB Patil, ST Bendre,	Materials Science-Poland	0.6 10	International	Yes	Yes	Physics and its applications, nano Material	March 2013	March 2013	31 (2),	221-225	ISSN 2083-1331, e-ISSN 2083-134X
39	Structural, magnetic and dielectric properties of nano-crystalline Ni-doped BiFeO ₃ ceramics formulated by self-propagating high-temperature synthesis,	Y Chaudhari,	C M Mahajan , S Bendre,	Jour. of Advanced Ceramics	1.1 98	International	Yes	Yes	Physics and its applications, nano Material	March 2013	March 2013	2 (2)	135	ISSN: 2226-4108 (Print) 2227-8508 (Online)
40	Atmospheric Wet and Dry Depositions of Ions over an Urban Location	K B Budhavant ,	PSP Rao, P D Safai, R D Gawhane, C. M.	Aerosol and Air Quality Research	2.6 06	International	Yes	Yes	Physics and its applications, nano Material	June 2012	June 2012	12 (4),	561-570	ISSN: 1680-8584 print / 2071-1409 online

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	in South-West India,		Mahajan, MP Raju, P Satsangi,											
41	Selecting Web Technology for Web Application Development – A Comparative Analysis	Nilam Upasani	S. Jagtap, S. Paymal	International Journal of Advances in Computing and Management (IJACM)	-	International	No	No	Computing and Management	Jan-Dec 2012	Jan-Dec 2012	1	1	2250 – 1975
42	Survey of Compressive Sensing	Usham Dias, Milind Rane	S.R.Bandewar,	International Journal of Scientific & Engineering Research		International	Yes	Yes	Engineering, Sensing	Feb 2012	February 2012	Vol 3 Issue 2	1-4	ISSN 2229-5518
43	Reengineering In Construction Industry “Expert Project Group”	S.V. Mukkawar	M. P. Rajurkar	International Journal of Advanced Technology in Civil	-	International	Yes	Yes	Construction Management	2012	2012	1	2	ISSN: 2231 – 5721

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	Aquirement Approach For Re-Engineering Construction Project Processes			Engineeri ng.										
44	Hydrodynamic Cavitation-Assisted Synthesis of Nanocalcite,	S Sonawane,	S Gumfekar, K Kate, S Meshram, K Kunte, L Ramjee, C Mahajan,	Int. Jour. of Chemical Engg.	2.6 06	International	Yes	Yes	Physics and its applications, nano Material	June 2010	2010	-	10	ISSN: 1687-806X (Print) ISSN: 1687-8078 (Online)
45	Characterization of Transparent Conducting Al: ZnO Thin Films Deposited by Chemical Spray Pyrolysis,	C M Mahajan,	AG Godbole, SP Gumfekar, SH Sonawane, MG Takwale,	Advanced Materials Research	0.4 83	International	Yes	Yes	Physics and its applications, nano Material	December 2009	2009	67,	103-108	ISSN: 1662-8985
46	An innovative method for effective micro-mixing of CO ₂ gas during synthesis of nano-calcite crystal using	S H Sonawane,	S Shirsath, P Khanna, S Pawar, C Mahajan, V Paithankar,	S H Sonawane,	6.2 16	International	Yes	Yes	Physics and its applications, nano Material	December 2008	2008	143 (1),	308-313	ISSN: 1385-8947

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