



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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QUALITY INDICATOR FRAMEWORK (QIF)

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years (10)

1-Any additional information

3.3.2.1: Number of research papers in the Journals notified on UGC website during the last five years.

Sl. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to article/paper/abstract of the article	Document Link
1	Dynamic mechanical properties of natural fiber composites—a review	Dr. Basavaraju Bennehalli	BSH	Advanced Composites and Hybrid materials	2019		https://doi.org/10.1007/s42114-019-00121-8	View Document
2	Development of nanofibrous scaffolds by varying the TiO ₂ content in crosslinked PVA for bone tissue engineering	Nandini A. P		New Journal of Chemistry	2019-2020	ISSN 1369-9261	https://doi.org/10.1039/C9NJ05118J	
3	Development of novel 3D scaffolds using BioExtruder by varying the content of hydroxyapatite and silica in PCL matrix for bone tissue engineering	Nandini A. P		Journal of Polymer Research	2019-2020	ISSN 1572-8935	https://doi.org/10.1007/s10965-020-02053-0	



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4	Development of nanocrystalline multilayer Ni-Fe alloy coatings: characterization and its corrosion behaviour at elevated temperature	Dr. Pavithra G.P		Bulletin of material science	2020		https://doi.org/10.1007/s12034-020-02087-6	
5	Electrodeposition of Zn-Ni Monolithic Coatings, characterization, and corrosion analysis	Dr. Pavithra G.P		Journal of Failure Analysis and prevention	2020		https://doi.org/10.1007/s11668-020-00848-3	
6	Development of Nanostructured Ni-Fe Alloy Coatings; Characterisation and Corrosion Analysis	Dr. Pavithra G.P		Surface Engineering and Applied Electrochemistry,	2020	ISSN 1068-3755	https://doi.org/10.3103/S1068375520010135	
7	Characterization and Corrosion Analysis of Electrodeposited Nanostructured Zn-Fe Alloy Coatings	Dr. Pavithra G.P		Journal of Bio-and Tribo-Corrosion	2020		https://doi.org/10.1007/s40735-020-00380-9	
8	The significant role of molecular dipole arrangements on the second and third-order nonlinear optical properties of a furan based chalcone	Dr. Jayarama A		Physica B: Condensed Matter Vol: 599 412501	2020	9214526	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092717862&doi=10.1016%2fj.physb.2020.412501&partnerID=40	



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							https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080989036&doi=10.1016%2fj.physb.2020.412083&partnerID=40&md5=a6814136dcb8d76bb78cb67ca12c490b	
9	A novel bromo-substituted thiophene based centrosymmetric crystals: Thermal, mechanical, and third order NLO properties for the optical limiting applications	Dr. Jayarama A		Physica B: Condensed Matter Vol: 585 412083	2020	9214526	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080989036&doi=10.1016%2fj.physb.2020.412083&partnerID=40&md5=a6814136dcb8d76bb78cb67ca12c490b	
10	Role of UV irradiation of Nafion membranes on ionic groups responsible for proton conduction and mechanical strength: A FTIR spectroscopic analysis	Dr. Jayarama A		Materials Today Communications Vol: 25 101471	2020	23524928	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088388604&doi=10.1016%2fj.mtcomm.2020.101471&partnerID=40&md5=2067f08b967d64a05d743590dcf9ca6b	
11	Investigation of structural, physical, linear, and nonlinear optical properties of two novel thiophene centred D- π -A type push-pull organic derivatives for nonlinear optical applications	Dr. Jayarama A		Journal of Molecular Structure Vol: 1220 128763	2020	222860	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087327415&doi=10.1016%2fj.molstruc.2020.122012&partnerID=40&md5=2067f08b967d64a05d743590dcf9ca6b	



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12	Significant effect of film thickness on morphology and third-order optical nonlinearities of Cd _{1-x} Zn _x O semiconductor nanostructures for optoelectronics	Dr. Jayarama A		Applied Physics A: Materials Science and Processing Vol: 126 8 603	2020	9478396	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087859524&doi=10.1007%2fs00339-020-03771-4&partnerID=40&md5=bb73c93ea0d4557e2898e3a95509450f	
13	Novel nitro based chalcone derivative single crystals: characterization on structural, linear optical, thermal, and third-order nonlinear optical properties	Dr. Jayarama A		Applied Physics A: Materials Science and Processing Vol: 126 11 855	2020	9478396	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092429546&doi=10.1007%2fs00339-020-04039-7&partnerID=40&md5=f77924264322935424d3d462eec68653	
14	Direct and integrated radial functions based quasilinearization schemes for nonlinear fractional differential equations	Dr. Prashanthi K.S		BIT Numerical Mathematics	2019-20	0006-3835 (print) 1572-9125 (web)	https://link.springer.com/article/10.1007/s10543-019-00766-3	



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15	Regularization of Highly Ill-Conditioned RBF Asymmetric Collocation Systems in Fractional Models	Dr. Prashanthi K.S		Advances in Mathematical Methods and High Performance Computing	2019-20	ISBN: 978-3-030-02487-1	https://link.springer.com/chapter/10.1007/978-3-030-02487-1_5	
16	Investigation of Security Issues and Promising Solution in Distributed Systems Monitoring	Dr. Manjunath Kotari,	CSE	IHandbook of Computer Networks and Cyber Security: Principles and Paradigms, Springer Nature	2020	Print ISBN 978-3-030-22276-5	https://doi.org/10.1007/978-3-030-22277-2_24	View Document
17	A Survey on Detection and Analysis of Cyber Security Threats Through Monitoring Tools	Dr. Manjunath Kotari	CSE	<u>Handbook of Research on Intrusion Detection Systems,</u>	2020	ISBN13: 9781799822424 ISBN10: 1799822427 EISBN13: 9781799822431	https://www.igi-global.com/chapter/a-survey-on-detection-and-analysis-of-cyber-security-threats-through-monitoring-tools/251798	
18	Management in centralized MANET's using layered coding Technique	Dr. S. Mohideen Badhusha	CSE	International Journal of Advance Science and Technology(IJAST), Copyright © 2020 SERSC	2020	ISSN: 2005-4238 IJAST 7671	https://www.scimagojr.com/journalsearch.php?q=21100896268&tip=sid&clean=0	



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19	Management in centralized MANET's using layered coding Technique	Sushant Mangasuli,	CSE	International Journal of Advance Science and Technology(IJAST), Copyright © 2020 SERSC	2020	ISSN: 2005-4238 IJAST 7671	https://www.scimagojr.com/journalsearch.php?q=21100896268&tip=sid&clean=0	
20	Correlation of Dynamic and Static Modulus of Elasticity of UHPC	Santhosh K.	CV	The Indian Concrete Journal	2020	ISBN-0019-4565	https://www.researchgate.net/publication/341960516_Indian_Concrete_Journal_Volume_94_No_6_June_2020	View Document
21	A fuzzy logic based approach for replacing mouse by facial expressions for people with disability in movement	Pradeep V	ISE	International Journal on Emerging Technologies	Feb-20	2249-3255	http://www.scopus.com/inward/record.url?eid=2-s2.0-85085047120&partnerID=fpDjhFsn	View Document
22	Controlling mouse navigation through 3D head movement	Pradeep V	ISE	International Journal of Scientific and Technology Research	Apr-20	2249-3255	http://www.scopus.com/inward/record.url?eid=2-s2.0-85083504450&partnerID=fpDjhFsn	



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23	Piezoelectric P (VDF-TrFE) micro cantilevers and beams for low frequency vibration sensors and energy harvesters	Dr.Richard Pinto	ECE	Sensors and Actuators A: Physical	2019-20	Volume 295, 15 August 2019, Pages 574-585	https://doi.org/10.1016/j.sna.2019.06.021	View Document
24	Pore size tuning of Nafion membranes by UV irradiation for enhanced proton conductivity for fuel cell applications	Dr.Richard Pinto	ECE	International Journal of Hydrogen Energy	2019-20	Volume 44, Issue 42, 3 September 2019, Pages 23762-23774	https://www.sciencedirect.com/science/article/abs/pii/S036031991932659X	
25	Power enhancement of passive micro-direct methanol fuel cells with self-sulfonation of P (VDF-TrFE) copolymer during lamination on Nafion membrane	Dr.Richard Pinto	ECE	International Journal of Hydrogen Energy	2019-20	Volume 44, Issue 57, 15 November 2019, Pages 30375-30387	https://doi.org/10.1016/j.ijhydene.2019.09.184	
26	Investigation on the sulfurization temperature dependent phase and defect formation of sequentially evaporated Cu-rich CZTS thin films	Dr.Richard Pinto	ECE	Solar Energy	2019-20	Volume 201, 1 May 2020, Pages 348-361	https://doi.org/10.1016/j.solener.2020.03.007	



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27	A Design and Implementation of Adiabatic Logic on Low Power Application Circuits	Dr. Praveen J	ECE	International Journal of Advanced Science and Technology	2019-20	ISSN2207-6360	http://sersc.org/journals/index.php/IJAST/article/view/26822
28	Design and Fabrication of Ammonia Gas Sensor Using Electrospinning Method for Industrial and Medical Applications	Dr. Praveen J	ECE	International Journal of Advanced Science and Technology	2019-20	ISSN2207-6360	http://sersc.org/journals/index.php/IJAST/article/view/26828
29	Design and Implementation of Low Power VLSI FinFET Dynamic Latch Comparator for ADC Application	Dr. Praveen J	ECE	International Journal of Advanced Science and Technology	2019-20	ISSN2207-6360	https://solidstate technology.us/index.php/JSST/article/view/1835
30	A REVIEW: DESIGN AND FABRICATION OF GAS SENSOR USING SOL-GEL SPIN COATING TECHNIQUE FOR THE DETECTION OF ETHANOL	Dr. Praveen J	ECE	International Journal of Advanced Science and Technology	2019-20	ISSN2207-6361	http://sersc.org/journals/index.php/IJAST/article/view/26760



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31	Role of UV irradiation of Nafion membranes on ionic groups responsible for proton conduction and mechanical strength: A FTIR spectroscopic analysis	Dr.Richard Pinto	ECE	Materials Today Communications 25 (2020)	2019-20	Volume 25, December 2020, 101471	https://www.sciencedirect.com/science/article/abs/pii/S235249282032482X
32	Role of UV irradiation of Nafion membranes on ionic groups responsible for proton conduction and mechanical strength: A FTIR spectroscopic analysis	Dr. D.V.Manjunatha	ECE	Materials Today Communications 25 (2020)	2019-20	Volume 25, December 2020, 101471	https://www.sciencedirect.com/science/article/abs/pii/S235249282032482X
33	Methanol crossover reduction and power enhancement of methanol fuel cells with polyvinyl alcohol coated Nafion membranes	Dr.Richard Pinto	ECE	Materials Today: Proceedings (2020)	2019-20	Volume 35, Part 3, 2021, Pages 344-351	https://www.sciencedirect.com/science/article/pii/S2214785320308385
34	Methanol crossover reduction and power enhancement of methanol fuel cells with polyvinyl alcohol coated Nafion membranes	Dr. D.V.Manjunatha	ECE	Materials Today: Proceedings (2020)	2019-20	Volume 35, Part 3, 2021, Pages 344-351	https://www.sciencedirect.com/science/article/pii/S2214785320308385



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35	Power enhancement of passive micro-direct methanol fuel cells with self-sulfonation of P(VDFTrFE) copolymer during lamination on Nafion membrane	Dr. D.V.Manjunatha	ECE	International Journal of Hydrogen Energy	2019-20	Volume 44, Issue 57, 15 November 2019, Pages 30375-30387	https://www.sciencedirect.com/science/article/abs/pii/S0360319919336328
36	Pore size tuning of Nafion membranes by UV irradiation for enhanced proton conductivity for fuel cell applications	Dr. D.V.Manjunatha	ECE	International Journal of Hydrogen Energy	2019-20	Volume 44, Issue 42, 3 September 2019, Pages 23762-23774	https://www.sciencedirect.com/science/article/abs/pii/S036031991932659X
37	REVIEW: DESIGN AND FABRICATION OF Semiconductor Diode using Phase Change Material (GST) for Nanotechnology Application	Dr. Praveen J	ECE	International Journal of Advanced Science and Technology	2019-20	ISSN2207-6360	http://sersc.org/journals/index.php/IJAST/article/view/26760
38	A REVIEW: ANTITHEFT SENSOR CONTROLLED HOME SECURITY SYSTEM	Mrs. Vijetha T S	ECE	International Journal of Research and Analytical Reviews (IJRAR)	2019-20	(E-ISSN 2348-1269, P-ISSN 2349-5138)	http://www.ijrar.org/viewfull.php?&p_id=IJRAR2001506



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39	Consequence of hot electron of Au and PbS shell thickness on photo-electrochemical and catalytic activity of ZnO@Au@PbS nanorods for decomposition of toxic organic chemicals and Cr(VI) reduction by UV-to-near-infrared photon harvesting	Dr. Mirnmoy Misra	ECE	Electrochimica Acta, 2020, In press, (Impact Factor - 6.2).	2019-20	Volume 341, 1 May 2020, 135943	10.1016/j.electacta.2020.135943	
40	TiO ₂ @Au@CoMn ₂ O ₄ core-shell nanorods for photo-electrochemical and photocatalytic activity for decomposition of toxic organic compounds and photo reduction of Cr ⁶⁺ ion,.	Dr. Mirnmoy Misra	ECE	Journal of Alloys and Compounds, 2020, In press, (Impact Factor - 4.1)	2019-20	Volume 824, 25 May 2020, 153861	https://doi.org/10.1016/j.jallcom.2020.153861	
41	Low-molecular weight polydimethylsiloxane, a versatile performance enhancer for the solution processed indium tin oxide transparent electrode	Dr. Mirnmoy Misra	ECE	Applied Surface Science, 2020, in press, (Impact Factor - 6.12).	2019-20	Volume 503, 15 February 2020, 144308	https://doi.org/10.1016/j.apsusc.2019.144308	
42	Artificial neural network technique to predict the properties of multiwall carbon nanotube-fly ash reinforced aluminium composite	Dr. Peter Fernandes	ME	Journal of Material Research and Technology	2019	2238-7854	https://doi.org/10.1016/j.jmrt.2019.07.005	View Document



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43	Effect of fly ash and ball milling time on CNT-FA reinforced aluminium matrix hybrid composites	Dr.Peter Fernandes	ME	Materials Research Express	2019	1757-899X	https://iopscience.iop.org/article/10.1088/2053-1591/ab1e20/meta
44	Underwater shock wave weldability window for Sn-Cu plates	Dr. Satyanarayan	ME	Journal of Materials Processing Technology	2019	0924-0136	https://doi.org/10.1016/j.jmatprotec.2018.11.044
45	Processing, characterization and property evaluation of seashell and glass fibre added epoxy based polymer matrix composite	Mr. Gopal Krishna U B	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.818
46	Processing, characterization and property evaluation of seashell and glass fibre added epoxy based polymer matrix composite	Mr. Srinivasa C S	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.818
47	Influence of WC-Co addition in the improvement of mechanical properties of aluminium matrix composite via liquid metallurgy route	Mr. Gopal Krishna U B	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.03.648



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48	Studies on Dry Sliding Wear Characteristics of Cermet WC-Co Particulate Reinforced Al7075 Metal Matrix Composite	Mr. Gopal Krishna U B	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2019.05.100
49	Effect of Mix waste cooking-oil biodiesel on performance and exhaust emissions of a CRDI engine	Mr.Kiran C H	ME	Journal of Physics: Conference Series , Scopus indexed	2020	1742-6596	https://iopscience.iop.org/article/10.1088/1742-6596/1473/1/012035
50	Simulation and analysis of P(VDF-TrFE) cantilever-beams for low frequency applications	Dr. Satyanaray an	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.698
51	Study on thermal resistance of brass with and without coatingof metallic surface	Dr. Satyanaray an	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.076
52	Study on thermal resistance of brass with and without coatingof metallic surface	Mr. Kumarswa my M C	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.076



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53	A review on effect of alloying elements and heat treatment on properties of Al – Sn alloy	Dr. Satyanarayan	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.01.617	
54	Effect of surface treatment on wetting behavior of copper	Dr. Satyanarayan	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.01.379	
55	Compression and water absorption behaviour of banana and sisal hybrid fiber polymer composites	Mr. G B Vaggar	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.695	
56	Compression and water absorption behaviour of banana and sisal hybrid fiber polymer composites	Mr. Pramod V B	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.695	
57	Compression and water absorption behaviour of banana and sisal hybrid fiber polymer composites	Mr. Praveen K C	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.695	



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58	A study on thermal conductivity enhancement of silicon carbide filler glass fiber epoxy resin hybrid composites	Mr. G B Vaggar	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.008	
59	A study on thermal conductivity enhancement of silicon carbide filler glass fiber epoxy resin hybrid composites	Mr. Pramod V B	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.008	
60	Thermal property characterization for enhancement of thermal conductivity of hybrid polymer composites	Mr. G B Vaggar	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2019.11.055	
61	An experimental study of process parameters on material removal rate in ECDM process	Mr. Sadashiv Bellubbi	ME	Materials Today Proceedings	2020 Feb	2214-7853	https://doi.org/10.1016/j.matpr.2020.01.510	
62	An investigation on effects of wire-EDT machining parameters on surface roughness of INCONEL 718	Mr. Sadashiv Bellubbi	ME	Materials Today Proceedings	2020 April	2214-7853	https://doi.org/10.1016/j.matpr.2020.03.031	



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63	Effect of injection pressure on the permance and emissiom of diesel engine fulled with blends of honge rice bran bio diesel	Dr. Peter Fernandes	ME	Materials Today Proceedings	2020 Feb	2214-7853	https://doi.org/10.1016/j.matpr.2020.03.071
64	Effect of injection pressure on the permance and emissiom of diesel engine fulled with blends of honge rice bran bio diesel	Mr. K.V.Suresh	ME	Materials Today Proceedings	2020 Feb	2214-7853	https://doi.org/10.1016/j.matpr.2020.03.071
65	Optimization of hydrogen flowrates and membrane electrode clamping pressure in hydrogen fuel cell with dual serpentine flow channels	Dr. Peter Fernandes	ME	Materials Today Proceedings	2020 Feb	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.791
66	Optimization of hydrogen flowrates and membrane electrode clamping pressure in hydrogen fuel cell with dual serpentine flow channels	Mr. K.V.Suresh	ME	Materials Today Proceedings	2020 Feb	2214-7853	https://doi.org/10.1016/j.matpr.2020.02.791
67	Assessment of carbon nanotubes (CNT) and fly ashes (FA) reinforced Al nanocomposites properties synthesised by powder metallurgy	Dr.Peter Fernandes	ME	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.03.345



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68	The Effect Of Thermal Aging On Solder/Substrate Interracial Microstructures During Reflow Of Sn-37Pb And Sn-3Ag-0.5Cu	Dr. Satyanarayan	ME	Journal Of Electronic Materials	2019	1545-1549	https://doi.org/10.1007/s12666-019-01583-6
69	The Effect Of Thermal Aging On Solder/Substrate Interracial Microstructures During Reflow Of Sn-37Pb And Sn-3Ag-0.5Cu	Mr. Kumarswamy M C	ME	Journal Of Electronic Materials	2019	1545-1549	https://doi.org/10.1007/s12666-019-01583-6
70	A Review Of The Performance And Characterization Of Conventional And Promising Thermal Interface Materials For Electronic Package Applications	Dr. Satyanarayan	ME	Journal Of Electronic Materials	2019	7623-7634	https://doi.org/10.1007/s11664-019-07623-7
71	A Review Of The Performance And Characterization Of Conventional And Promising Thermal Interface Materials For Electronic Package Applications	Mr. Kumarswamy M C	ME	Journal Of Electronic Materials	2019	7623-7634	https://doi.org/10.1007/s11664-019-07623-7