

PSG Institute of Technology and Applied Research

Publications (Jan 2021 to Mar 2021)

#	Authors	Title	Source title	DOI	Publisher	Doc. Type	Dept.
1	Singhal H.R., Prabhu A., Giri Nandagopal M.S., Dheivasigamani T. , Mani N.K.	One-dollar microfluidic paper-based analytical devices: Do-It-Yourself approaches	Microchemical Journal	10.1016/j.microc.2021.106126	Elsevier Inc.	Review	PHY
2	Arumugam H., Mohamed Ismail A.A., Govindraj L., Muthukaruppan A.	Development of bio-based benzoxazines coated melamine foam for oil-water separation	Progress in Organic Coatings	10.1016/j.porgcoat.2020.106128	Elsevier B.V.	Article	CIVIL
3	Ramakrishnan S., Krishnamurthy K., Rajeshkumar G. , Asim M.	Dynamic Mechanical Properties and Free Vibration Characteristics of Surface Modified Jute Fiber/Nano-Clay Reinforced Epoxy Composites	Journal of Polymers and the Environment	10.1007/s10924-020-01945-y	Springer	Article	MECH
4	Kurinchyselvan S., Chandramohan A., Hariharan A., Gomathipriya P., Alagar M.	Mesoporous silica MCM-41-reinforced cardanol-based benzoxazine nanocomposites for low-k applications	Polymer Bulletin	10.1007/s00289-020-03198-0	Springer	Article	CHE
5	Kumaravel A. , Murugananthan M.	Electrochemical detection of fenitrothion usingnanosilver/dodecane modified glassy carbon electrode	Sensors and Actuators, B: Chemical	10.1016/j.snb.2021.129467	Elsevier B.V.	Article	CHE
6	Vytla V., Ramakuri S.K., Peddi A., Kalyan Srinivas K., Nithish Ragav N.	Mathematical models for predicting COVID-19 pandemic: A review	Journal of Physics: Conference Series	10.1088/1742-6596/1797/1/012009	IOP Publishing Ltd	Conference Paper	EEE
7	Jayasanthi M. , Rajendran G., Vidhyakar R. B.	Independent component analysis with learning algorithm for electrocardiogram feature extraction and classification	Signal, Image and Video Processing	10.1007/s11760-020-01813-1	Springer	Article	ECE
8	Hong J., Wu T., Wu H., Zeng B., Zeng S., Chen T., Wang X., Lu Z., Yuan C., Balaji K. , Petri D.F.S., Dai L.	Nanohybrid silver nanoparticles@halloysite nanotubes coated with polyphosphazene for effectively enhancing the fire safety of epoxy resin	Chemical Engineering Journal	10.1016/j.cej.2020.127087	Elsevier B.V.	Article	CHE
9	Siva Prakash R., Mahendran C., Chandrasekaran J., Marnadu R., Maruthamuthu S. , Yahia I.S., Shkir M.	A facile fabrication of Sn-doped CeO ₂ nanocrystalline thin films with enhanced photodiode properties for optoelectronic applications	Applied Physics A: Materials Science and Processing	10.1007/s00339-021-04311-4	Springer	Article	PHY

10	Dhiwaha A.T., Maruthamuthu S. , Marnadu R., Sundararajan M., Manthrammel M.A., Shkir M., Sakthivel P., Minnam Reddy V.R.	Improved photocatalytic degradation of rhodamine B under visible light and magnetic properties using microwave combustion grown Ni doped copper ferrite spinel nanoparticles	Solid State Sciences	10.1016/j.solidstatesciences.2021.106542	Elsevier Masson s.r.l.	Article	PHY
11	Rajeshkumar G. , Hariharan V., Indran S., Sanjay M.R., Siengchin S., Maran J.P., Al-Dhabi N.A., Karuppiah P.	Influence of Sodium Hydroxide (NaOH) Treatment on Mechanical Properties and Morphological Behaviour of Phoenix sp. Fiber/Epoxy Composites	Journal of Polymers and the Environment	10.1007/s10924-020-01921-6	Springer	Article	MECH
12	Dinesh Kanna M., Arun M.	Effects of Longitudinal and Transverse Direction Opening in Reinforced Concrete Beam: The State of Review	IOP Conference Series: Materials Science and Engineering	10.1088/1757-899X/1059/1/012049	IOP Publishing Ltd	Conference Paper	CIVIL
13	Balasubramaniam T., Karthick M., Arun M.	Performance Assessment of Concrete Incorporating Recycled Coarse Aggregates and Graphene Oxide	IOP Conference Series: Materials Science and Engineering	10.1088/1757-899X/1059/1/012069	IOP Publishing Ltd	Conference Paper	CIVIL
14	Selvaraj V., Raghavarshini T.R., Alagar M.	Advanced development of dairy farm waste-based biocarbon-reinforced unsymmetrical structured bio-phenolic polybenzoxazine composites	High Performance Polymers	10.1177/0954008320941575	SAGE Publications Ltd	Article	CHE
15	Selvaraj V., Swarna Karthika T., Mansiya C., Alagar M.	An over review on recently developed techniques, mechanisms and intermediate involved in the advanced azo dye degradation for industrial applications	Journal of Molecular Structure	10.1016/j.molstruc.2020.129195	Elsevier B.V.	Review	CHE
16	Suganya B., Maruthamuthu S. , Chandrasekaran J., Saravanakumar B., Vijayakumar E., Marnadu R., Al-Enizi A.M., Ubaidullah M.	Design of zinc vanadate (Zn ₃ V ₂ O ₈) /nitrogen doped multiwall carbon nanotubes (N-MWCNT) towards supercapacitor electrode applications	Journal of Electroanalytical Chemistry	10.1016/j.jelechem.2020.114936	Elsevier B.V.	Article	PHY
17	Prem Kumar T. , Sai Subramanian P., Naresh G.	Design and Analysis of Flow Field Patterns in Bipolar Plates of a Proton Exchange Membrane Fuel Cell	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_41	Springer	Conference Paper	MECH
18	Rajeshkumar G. , Naveen Kumar K., Aravind M., Santhosh S., Gowtham Keerthi T.K., Arvindh Seshadri S.	A Comprehensive Review on Mechanical Properties of Natural Cellulosic Fiber Reinforced PLA Composites	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_19	Springer	Conference Paper	MECH
19	Sivananda Devi K.	Studies on the Improved Design in the Heat-Setting Platen Used in Textile Industry	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_48	Springer	Conference Paper	MECH
20	Prem kumar T. , Hariharan V., Manojkumar S.	Effect of Dodecagon Shape Frustum Concentrator and Internal Fins in 2 in 1 Box-Type Solar Cooker	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_47	Springer	Conference Paper	MECH

21	Suraj S., Nivedha Sri S.S., Ragul Krishna P., Jagatheaswaran S., Manoj Kumar P.	CFD Analysis of NACA 4412 Aerofoil Considering Ground Effect	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_42	Springer	Conference Paper	MECH
22	Deepa M., Reba P., Santhanamari G., Susithra N.	Enriched blended learning through virtual experience in microprocessors and microcontrollers course	Journal of Engineering Education Transformations	10.16920/jeet/2021/v34i0/157236	Rajarambapu Institute Of Technology	Article	ECE
23	Navin Ganesh V.	A quantitative investigation of student performance in a peer assisted flipped classroom model	Journal of Engineering Education Transformations	10.16920/jeet/2021/v34i0/157133	Rajarambapu Institute Of Technology	Article	CIVIL
24	Ramesh R., Prasanth A.S., Gopalakrishnan P.	Trend Plot Analysis of Dry Sliding Wear in Al/SiC Co-continuous Ceramic Composites	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_7	Springer	Conference Paper	MECH
25	Kala I., Karthik S., Srihari K.	Advanced hybrid secure multipath optimized routing in Internet of Things (IoT)-based WSN	International Journal of Communication Systems	10.1002/dac.4782	John Wiley and Sons Ltd	Article	
26	Karuppuswamy P., Bhagyanathan C., Sathish S., Elangovan D.	Hardfacing of Ni-Based Alloys on Medium Carbon Steel to Improve Turbine Blade Properties	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_38	Springer	Conference Paper	MECH
27	Ramakrishnan S., Krishnamurthy K., Rajeshkumar G.	Experimental Analysis of Tribological Behaviour of Jute Fiber-Reinforced Nanoclay Filled Epoxy Composites	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_1	Springer	Conference Paper	MECH
28	Ramesh Kannan C., Manivannan S., Raj Kumar V.	Experimental Investigation on Tool Wear Using Sub-zero Treated Insert in Turning of EN 24 Steel	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_64	Springer	Conference Paper	MECH
29	Nagarjun J., Kanchana J., RajeshKumar G., Manimaran S., Krishnaprakash M.	Enhancement of Mechanical Behavior of PLA Matrix Using Tamarind and Date Seed Micro Fillers	Journal of Natural Fibers	10.1080/15440478.2020.1870616	Bellwether Publishing, Ltd.	Article	MECH
30	Avinash Kumar R., Kavitha M., Manoj Kumar P., Arvindh Seshadri S.	Numerical study of graphene-platinum hybrid nanofluid in microchannel for electronics cooling	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	10.1177/0954406220987261	SAGE Publications Ltd	Article	MECH
31	Devasena M., Sangeetha V.	Implications of Nano-Titanium Dioxide Incorporation in Cement Matrix: A Review	Journal of The Institution of Engineers (India): Series D	10.1007/s40033-020-00247-w	Springer	Review	CIVIL
32	Manickam M., Boggu P.R., Pillaiyar T., Nam Y.J., Abdullah M., Lee S.J., Kang J.S., Jung S.-H.	Design, synthesis and anticancer activity of 2-amidomethoxy-1,4-naphthoquinones and its conjugates with Biotin/polyamine	Bioorganic and Medicinal Chemistry Letters	10.1016/j.bmcl.2020.127685	Elsevier Ltd	Article	CHE
33	Hariharan V., Rajeshkumar G., Ibrahim Sheriff K.A.	Fault Diagnosis of Unbalanced Multirotor System	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-7557-0_34	Springer	Conference Paper	MECH

34	Jayasanthi M. , Ramamoorthy V., Parthiban A.	Improved ICA algorithm for ECG feature extraction and R-peak detection	International Journal of Adaptive Control and Signal Processing	10.1002/acs.3186	John Wiley and Sons Ltd	Article	ECE
35	Sangeetha V., Thenmozhi A., Devasena M.	Enhanced Removal of Lead from Soil Using Biosurfactant Derived from Edible Oils	Soil and Sediment Contamination	10.1080/15320383.2020.1811204	Bellwether Publishing, Ltd.	Article	CIVIL
36	Kavithamani C., Sankara Subramanian R. S. , Krishnamurthy S., Chathu J., Iyer G.	An analysis of remotely triggered malware exploits in content management system-based web applications	Advances in Intelligent Systems and Computing	10.1007/978-981-15-5285-4_15	Springer	Conference Paper	MATH.
37	Elangovan D. , Sundararaj G., Devadasan S. R., Karuppuswamy P., Vishnupriyan R.	Development of Supply Chain Risk Management Strategies for Mitigating Loss Prevention in Manufacturing Organizations	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_39	Springer	Conference Paper	MECH
38	Mohanraj S., Narenthiran B., Manivannan S., Arul Murugan R., Raj Kumar V.	Classification of Rice Grains Based on Quality Using Probabilistic Neural Network	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_62	Springer	Conference Paper	MECH
39	Rajeshkumar G. , Seshadri A., Sumesh K. R., Nagaraja K.C.	Influence of Phoenix sp. Fiber Content on the Viscoelastic Properties of Polymer Composites	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_10	Springer	Conference Paper	MECH
40	Ramesh Kumar D., Elangovan D. , Devadasan S.R., Gokulakrishnan B.	Effective Supply Chain Management by Using the Data-Based Decision Support System	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_40	Springer	Conference Paper	MECH
41	Vignesh R., Narenthiran B., Manivannan S., Arul Murugan R., RajKumar V.	Concrete Bridge Crack Detection Using Convolutional Neural Network	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-9809-8_58	Springer	Conference Paper	MECH
42	Mohan S., Shankar S., Rajeshkumar G.	Preface	Lecture Notes in Mechanical Engineering		Springer	Editorial	MECH
43	Karthi N., Kumaresan K., Rajeshkumar G. , Gokulkumar S., Sathish S.	Tribological and Thermo-Mechanical Performance of Chemically Modified Musa Acuminata / Corchorus Capsularis Reinforced Hybrid Composites	Journal of Natural Fibers	10.1080/15440478.2020.1870614	Bellwether Publishing, Ltd.	Article	MECH
44	Isanaka B.R., Akbar M.A., Perumal P. , Priyanka R.S.	High performance concrete mixed with combinations of mineral admixtures	Lecture Notes in Civil Engineering	10.1007/978-981-15-5195-6_44	Springer	Conference Paper	CIVIL
45	Pillaiyar T. , Wendt L.L., Manickam M., Easwaran M.	The recent outbreaks of human coronaviruses: A medicinal chemistry perspective	Medicinal Research Reviews	10.1002/med.21724	John Wiley and Sons Inc	Review	CHE
46	Kumar M., Sujatha S., Gokulan R., Vijayakumar A., Praveen S., Elayaraja S.	Prediction of RSM and ANN in the decolorization of reactive orange 16 using biochar derived from ULVA lactuca	Desalination and Water Treatment	10.5004/dwt.2021.26615	Desalination Publications	Article	CIVIL

47	Kumar M., Gokulan R., Sujatha S., Shanmuga Priya S.P., Praveen S., Elayaraja S.	Biodecolorization of Reactive Red 120 in batch and packed bed column using biochar derived from <i>Ulva reticulata</i>	Biomass Conversion and Biorefinery	10.1007/s13399-020-01268-x	Springer	Article	CIVIL
48	Jadhav S.A., Biji P., Panthalingal M.K. , Murali Krishna C., Rajkumar S., Joshi D.S., Sundaram N.	Development of integrated microfluidic platform coupled with Surface-enhanced Raman Spectroscopy for diagnosis of COVID-19	Medical Hypotheses	10.1016/j.mehy.2020.110356	Churchill Livingstone	Letter	MECH
49	Gunasekaran S., Thangaraju D. , Marnadu R., Chandrasekaran J., Shkir M., Durairajan A., Valente M.A., Alshaharanig T., Elango M.	Photosensitive activity of fabricated core-shell composite nanostructured p-CuO@CuS/n-Si diode for photodetection applications	Sensors and Actuators, A: Physical	10.1016/j.sna.2020.112373	Elsevier B.V.	Article	PHY
50	Arputhavalli G.J., Agilan S., Ray M., Thangaraju D. , Marnadu R., Chandrasekaran J., Chandekar K.V., Shkir M., Jebasingh S., Dinesh M.	Post-annealing effects on structural and magnetic properties of pulsed laser deposition grown Co–Ni–Al ferromagnetic shape memory alloys thin films	Solid State Sciences	10.1016/j.solidstatesciences.2020.106493	Elsevier Masson s.r.l.	Article	PHY