



PSG Institute of Technology and Applied Research

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Research and Development

List of Publications

2023

#	Year	Title	Authors	Source Title	DOI	Document Type	EID
1	2023	Numerical Modeling of Kerf Generation in Abrasive Waterjet Machining of Military Grade Armor Steel	Rammohan, S., Thirumalai Kumaran, S., Uthayakumar, M., Velayutham, A.	Human Factors and Mechanical Engineering for Defense and Safety	10.1007/s41314-023-00056-5	Article	2-s2.0-85148226340
2	2023	Electrosynthesis of semitransparent Ni-Co ₂ -Cu mixed oxide electrode film for novel solid state asymmetric planar supercapattery application	Adewinbi, S.A., Maphiri, V.M., Taleatu, B., Minnam Reddy, V.R., Kim, W.K., Maruthamuthu, S., Marnadu, R., Shkir, M., Manyala, N.	Journal of Energy Storage	10.1016/j.est.2023.108318	Article	2-s2.0-85164707913
3	2023	Bio-thymol containing new high-performance thymolphthalein based polybenzoxazine: Thermal, superhydrophobic and dielectric properties	Srinivasan, H., Arumugam, H., Rimdusit, S., Muthukaruppan, A.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	10.1016/j.colsurfa.2023.131947	Article	2-s2.0-85165159605
4	2023	Valorization of agricultural waste to polybenzoxazine-carbon composites: Studies on microstructure, thermal and dielectric properties	Madesh, P., Ramachandran, S., Appasamy, S., Krishnasamy, B., Muthu, K., Muthukaruppan, A.	European Polymer Journal	10.1016/j.eurpolymj.2023.112355	Article	2-s2.0-85167402728
5	2023	Structure, thermal, hydrophobic, and dielectric properties of Bermuda grass ash bio-silica, SBA-15, and rGO-reinforced bisphenol-BA-	Srinivasan, H., Krishnan, J., Arumugam, H., Muthukaruppan, A.	Journal of Applied Polymer Science	10.1002/app.54447	Article	2-s2.0-85165358558

		based polybenzoxazine composites					
6	2023	Analyzing the efficacy of SAF (sulfonated acetone formaldehyde) as mechano-luminous (ML) material for detecting incipient crack	Rathinavel, N., Murugesan, A., Ismail, A.A.M.	Innovative Infrastructure Solutions	10.1007/s41062-023-01238-y	Article	2-s2.0-85171343822
7	2023	Compatibility matrix of superplasticizers in Ultra-High-Performance concrete for material sustainability	Murugesan, A., Umapathi, N., Mohamed Ismail, A.A., Srinivasan, D.	Innovative Infrastructure Solutions	10.1007/s41062-023-01228-0	Article	2-s2.0-85170653898
8	2023	Augmented energy transformative intrinsic algorithm based improved power quality in fuel cell driven dynamic voltage restorer	Venugopal, G., Udayakumar, A.K., Saha, N., Kalavathy, A.N., Balashanmugham, A., B . . , V.	Computers and Electrical Engineering	10.1016/j.compeleceng.2023.108952	Article	2-s2.0-85170641294
9	2023	ELECTROCHEMICAL POLARIZATION STUDIES on SPARK PLASMA SINTERED SS316-B4C COMPOSITE	Baranidharan, K., Kumaran, S.T., Uthayakumar, M., Parameswaran, P.	Surface Review and Letters	10.1142/S0218625X23500701	Article	2-s2.0-85165920423
10	2023	The effect of nanoclay on the performance of basalt-epoxy facesheet and foam core sandwich panels	Joseph, C., Muthukumar, C., Ng, L.F., Subramanian, J., Ramesh, C., Krishnasamy, S., Thiagamani, S.M.K.	Journal of Sandwich Structures and Materials	10.1177/10996362231191140	Article	2-s2.0-85165508312
11	2023	Development of hybrid polybenzoxazine composites from sustainable bio-phenol for dielectric and superhydrophobic water repellent utilizations	Mydeen K, M., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	Polymer	10.1016/j.polymer.2023.126287	Article	2-s2.0-85167970529
12	2023	Performance Investigation of Generalized Rain Pattern Absorption Attention Network for Single-Image Deraining	Pravin Kumar, M., Jayaraman, T., Senthilkumar, M., Sumaiya Begum, A.	Journal of Circuits, Systems and Computers	10.1142/S0218126623502316	Article	2-s2.0-85150749061
13	2023	Natural fiber-based food packaging films	Rajeshkumar, G., Karthick, M., Aseel Ahmed, A.K., Vikram Raj, T., Abinaya, V., Madhu Mitha, K., Ronia Richelle, R.	Natural Materials for Food Packaging Application	10.1002/9783527837304.ch6	Book Chapter	2-s2.0-85166143398

14	2023	Hot oxidation and corrosion behaviour of boiler steel fabricated by wire arc additive manufacturing	Kannan, A.R., Prasad, C.D., Rajkumar, V., Shanmugam, N.S., Lee, W., Yoon, J.	Materials Characterization	10.1016/j.matchar.2023.113113	Article	2-s2.0-85164258627
15	2023	Synthesis of chemically exfoliated reduced graphene oxide from as-grated graphite rods recovered from used household batteries for utilization in tribological applications	Manokaran, S., Manikkavasagan, K., Nesappan, S., Meenakshisundaram, H.	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	10.1177/14644207231171533	Article	2-s2.0-85158857969
16	2023	Development of novel Cuckoo search optimization-based controller for partially shaded Photovoltaic system	Karunanidhi, B., Ramasamy, L., Sathiasamuel, C.R., Manivannan Sudha, V.	Journal of Intelligent and Fuzzy Systems	10.3233/JIFS-224137	Article	2-s2.0-85169921434
17	2023	Implementation of Linear Test Stimulus Generator for Non-linearity Computation of ADC	Paldurai, K., Hariharan, K., Naveen, K.S., Shreenidhaa, K.K.	Instruments and Experimental Techniques	10.1134/S0020441223040048	Article	2-s2.0-85168306746
18	2023	Machinability study of cryogenic-ultrasonic vibration-assisted milling Inconel 718 alloy	Xu, M., Chen, S., Kurniawan, R., Li, C., Wei, R., Teng, H., Kumaran, T., Han, P.W., Ko, T.J.	International Journal of Advanced Manufacturing Technology	10.1007/s00170-023-11858-4	Article	2-s2.0-85163801369
19	2023	Electrochemical Detection of Nitenpyram Pesticide Using Nanoparticles Synthesized from Waste Plastics	Ammasai, K.	Journal of Environmental Engineering (United States)	10.1061/JOEEDU.EEENG-7312	Article	2-s2.0-85160907091
20	2023	Erosion behavior of plasma and DGun sprayed nichrome coatings on 2205 duplex stainless steel	Kuruvila, R., Kumaran, S.T., Uthayakumar, M., Khan, M.A., Ahmed, F.	International Journal on Interactive Design and Manufacturing	10.1007/s12008-022-01196-2	Article	2-s2.0-85145848695
21	2023	Size and surface-engineered BiVO4 catalytic smooth spheres for efficient electrochemical detection of bifenoX herbicide	Dheivasigamani, T., Ammasai, K., Shanmugam, P., Selvam, G.S., Arulmozhi, D.	New Journal of Chemistry	10.1039/d3nj01533e	Article	2-s2.0-85168744316
22	2023	Investigation of various solar MPPT techniques in solar panel	Divya, R., Pavithra, C.V., Sundaram, M.	Machine Learning and the Internet of Things in Solar Power Generation	10.1201/9781003302964-4	Book Chapter	2-s2.0-85163931418
23	2023	Flexural, impact, and dynamic mechanical analysis of glass fiber/ABS and glass	Aravind, D., Senthilkumar, K., Rajini, N., Siengchin, S., Yorseng,	Journal of Applied Polymer Science	10.1002/app.54007	Article	2-s2.0-85158117335

		fiber/carbon fiber/ABS composites	K., Kumar, T.S.M., Chandrasekar, M., Mohammad, F., Al-Lohedan, H.A.				
24	2023	Improvement of computer vision-based elephant intrusion detection system (EIDS) with deep learning models	Jothibasu, M., Sowmiya, M., Harsha, R., Naveen, K.S., Suriyaprakash, T.B.	Innovative Engineering with AI Applications		Book Chapter	2-s2.0-85168264590
25	2023	Client Classification and Dynamic Pricing of Resources in Cloud using Cloud Simulator	Ponnuswamy, P.P., Shabariram, C.P.	International Journal on Recent and Innovation Trends in Computing and Communication	10.17762/ijritcc.v11i7s.7017	Article	2-s2.0-85169686688
26	2023	Study on the Inter-Laminar Shear Strength and Contact Angle of Glass Fiber/ABS and Glass Fiber/Carbon Fiber/ABS Hybrid Composites	Dhandapani, A., Krishnasamy, S., Nagarajan, R., Thiagamani, S.M.K., Muthukumar, C.	Applied Science and Engineering Progress	10.14416/j.asep.2023.02.004	Article	2-s2.0-85166922841
27	2023	Exploring the recycling potential of HDPE films reinforced with flax fiber for making sustainable decorative tiles	Periyasamy, D., Manoharan, B., Arockiasamy, F.S., Aravind, D., Senthilkumar, K., Rajini, N., Muhammed, F.F., Al-Lohedan, H.A.	Journal of Materials Research and Technology	10.1016/j.jmrt.2023.06.067	Article	2-s2.0-85163217745
28	2023	Nonylphenol-based polybenzoxazine composites: hydrophobic coating, ultra-low-k and anticorrosion applications	Mohamed Mydeen, K., Arumugam, H., Krishnasamy, B., Subramani, D., Muthukaruppan, A.	Journal of Materials Science	10.1007/s10853-023-08671-5	Article	2-s2.0-85163167153
29	2023	Characterization of New Cellulose Fiber Extracted from Pithecellobium dulce Tree	Sathishkumar, T.P., Navaneethakrishnan, P., Shivaram, S.V., Kanna, S.S., Rajeshkumar, L., Rajeshkumar, G.	Applied Science and Engineering Progress	10.14416/j.asep.2023.05.002	Article	2-s2.0-85163123259
30	2023	Sustainable L-tyrosine based bio-benzoxazines for efficient protection of mild steel surfaces from marine environment	Mohamed Mydeen, K., Arumugam, H., Krishnasamy, B., Sathy Srikandan, S., Muthukaruppan, A.	International Journal of Adhesion and Adhesives	10.1016/j.jjadh.2023.103405	Article	2-s2.0-85160322344

31	2023	Polarization-insensitive and wide-angle MXene-TiN-based wideband absorber operating in the visible and near-infrared regime	Abou Houran, M., Adhavan, B., Baqir, M.A., Saqlain, M.	Optical and Quantum Electronics	10.1007/s11082-023-04681-4	Article	2-s2.0-85159854113
32	2023	Effect of neodymium (Nd) doping on the photocatalytic organic dye degradation performance of sol-gel synthesized CoFe ₂ O ₄ self-assembled microstructures	Hemasankari, S., Priyadharshini, S., Thangaraju, D., Sathiyarayananamoorthi, V., Al Sdran, N., Shkir, M.	Physica B: Condensed Matter	10.1016/j.physb.2023.414870	Article	2-s2.0-85153496361
33	2023	Effect of Fiber Orientation on Physical and Mechanical Properties of Typha angustifolia Natural Fiber Reinforced Composites	Bhuvaneswari, V., Rajeshkumar, L., Sathishkumar, T.P., Rajeshkumar, G., Sanjay, M.R., Siengchin, S.	Applied Science and Engineering Progress	10.14416/j.asep.2022.11.004	Article	2-s2.0-85150777944
34	2023	Sum throughput enhancement of wireless powered IoT communication network assisted by IRS with a practical reflection model	Reba, P., Mohandass, S., Chitra, V., Suriyaa, M.M.	Signal, Image and Video Processing	10.1007/s11760-022-02459-x	Article	2-s2.0-85147362640
35	2023	ZnO nano grafted chitin-chitosan based hybrid composite coated super hydrophobic filter paper for water flow cleaning and oil-water separation applications	Selvaraj, V., Swarna Karthika, T., Mansiya, C., Alagar, M.	New Journal of Chemistry	10.1039/d3nj01554h	Article	2-s2.0-85164326084
36	2023	Model Free Thermal Degradation Kinetics of Bisphenol-Z Based Polymers Containing Substituted Cyclohexane Group: Syntheses and Spectral Characterization	Govindraj Latha, Priyanka, M., Subasri, A., Hariharan, A., Balaji, K., Murugavel, S.C.	Polymer Science - Series B	10.1134/S1560090423701026	Article	2-s2.0-85164477931
37	2023	Experimental and Numerical Investigations of Laced Built-Up Lightweight Concrete Encased Columns Subjected to Cyclic Axial Load	Divyah, N., Prakash, R., Srividhya, S., Avudaiappan, S., Guindos, P., Carsalade, N.M., Arunachalam, K.P., Noroozinejad Farsangi, E., Roco-Videla, Á.	Buildings	10.3390/buildings13061444	Article	2-s2.0-85163717820

38	2023	A dual role on cleaning and healing of foreign agents for sustainable smart buildings using nano-TiO ₂	Murugesan, A., Venkatraman, V., Ismail, A.A.M., Srinivasan, D.	Innovative Infrastructure Solutions	10.1007/s41062-023-01152-3	Article	2-s2.0-85160437408
39	2023	Thermal, electrical, morphological and hydrophobic properties of bio-silica reinforced bio-benzoxazine nanocomposites	Ayyavu, C., Rangasamy, P., Senthil Kumar, P., Kannaiyan, S., Muthukaruppan, A., Kannaiyan, D.	Applied Nanoscience (Switzerland)	10.1007/s13204-023-02840-3	Article	2-s2.0-85153102372
40	2023	Studies on bond relationship between energy of activation and catalytic activity of azomethine polymer framework enveloped over mesquite carbon hybrid composite electrodes for energy production applications	Arunkumar, K., Selvaraj, V., Alagar, M.	Ionics	10.1007/s11581-023-04989-x	Article	2-s2.0-85153066375
41	2023	Quasi-static Indentation Behavior of Kevlar-Hemp and Kevlar-PALF Composites: Influence of Weaving Architecture and Intra-ply Hybridization	Sangilimuthukumar, J., Thiagamani, S.M.K., Siengchin, S., Chandrasekar, M., Ramesh, C., Krishnasamy, S., Rangappa, S.M.	Applied Composite Materials	10.1007/s10443-023-10124-w	Article	2-s2.0-85152779362
42	2023	Investigating the synergistic effect of olive trunk leaves powder and pineapple leaf fibers on the physical, tensile, and thermal properties of epoxy-based composites	Senthilkumar, K., Chandrasekar, M., Jawaid, M., Mahmoud, M.H., Fouad, H., Santulli, C., Zaki, S.A.	Polymer Composites	10.1002/pc.27330	Article	2-s2.0-85151963158
43	2023	Geostatistical modelling of groundwater quality for irrigation: a case study of Mayiladuthurai district, Tamil Nadu	Devasena, M., Bivin Ebenezer, S.	Modeling Earth Systems and Environment	10.1007/s40808-022-01590-5	Article	2-s2.0-85141581635
44	2023	Investigation of mechanical and wear properties of Al6061/Si3N4/MgO hybrid composite fabricated by stir casting method	Thirumoorthy, A., Arulraj, M., Arjunan, T.V., Rajeshkumar, G., Kumaravelan, R., Venkatesh, L.	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process	10.1177/09544089221105934	Article	2-s2.0-85131715583

				Mechanical Engineering			
45	2023	Optimization and characterization of pectin recovered from Persea americana peel using statistical and non-statistical techniques	Sivamani, S., Binnal, P., Roy, C., Al Khaldi, A., Al Hamar, F., Maran, J.P., Sivarajasekar, N., Rajeshkumar, G., Al-Dhabi, N.A., Karuppiah, P.	Biomass Conversion and Biorefinery	10.1007/s13399-021-01727-z	Article	2-s2.0-85111136301
46	2023	NNPEC: Neighborhood node propagation entropy centrality is a unique way to find the influential node in a complex network	Chakravarthy, T.S., Selvaraj, L.	Concurrency and Computation: Practice and Experience	10.1002/cpe.7685	Article	2-s2.0-85150335423
47	2023	Assessment of urban air quality using geo spatial techniques for sustainable development: case of Tirupur City, India	Rajkumar, R., Elangovan, K., Navin Ganesh, V., Govarthanambikai, K.	Global Nest Journal	10.30955/gnj.004757	Article	2-s2.0-85163750013
48	2023	Anisotropic structure-property relations of FDM printed short glass fiber reinforced polyamide TPMS structures under quasi-static compression	Lal Lazar, P.J., Subramanian, J., Natarajan, E., Markandan, K., Ramesh, S.	Journal of Materials Research and Technology	10.1016/j.jmrt.2023.05.167	Article	2-s2.0-85160811484
49	2023	Targeted Pre-Treatment of Hemp Fibers and the Effect on Mechanical Properties of Polymer Composites	Palanikumar, K., Natarajan, E., Markandan, K., Ang, C.K., Franz, G.	Fibers	10.3390/fib11050043	Review	2-s2.0-85160270069
50	2023	Studies on nano-hybrid biopolymer composite coating on corroded steel to improve the corrosion resistance and hydrophobicity of the surface	Murugesan, A., Joselin, R., Mohamed Ismail, A.A., Srinivasan, D.	Innovative Infrastructure Solutions	10.1007/s41062-023-01126-5	Article	2-s2.0-85156276427
51	2023	Hydrothermally development of boron-integrated graphene nanoparticles for p-n junction diode applications	Sumathi, N., Dhanemozhi, A.C., Marnadu, R., Thangaraju, D., Adewinb, S.A., Maiz, F., Khan, Z.R., Shkir, M.	Optical Materials	10.1016/j.optmat.2023.113769	Article	2-s2.0-85152230265
52	2023	Development of high performance granite fine fly dust particle reinforced epoxy composites: structure,	Arumugam, H., Iqbal M, M., Ahn, C.-H., Rimdusit, S., Muthukaruppan, A.	Journal of Materials Research and Technology	10.1016/j.jmrt.2023.03.199	Article	2-s2.0-85151571054

		thermal, mechanical, surface and high voltage breakdown strength properties					
53	2023	Cloud computing principles for optimizing robot task offloading processes	Rahamathunnisa, U., Sudhakar, K., Murugan, T.K., Thivaharan, S., Rajkumar, M., Boopathi, S.	AI-Enabled Social Robotics in Human Care Services	10.4018/978-1-6684-8171-4.ch007	Book Chapter	2-s2.0-85163279851
54	2023	Enhanced mechanical, tribological, and acoustical behavior of polyphenylene sulfide composites reinforced with zero-dimensional alumina	Natarajan, E., Ramesh, S., Markandan, K., Saravanakumar, N., Dilip, A.A., Batcha, A.R.S.	Journal of Applied Polymer Science	10.1002/app.53748	Article	2-s2.0-85148347197
55	2023	Synthesis and characterisation of cycloaliphatic and aromatic amines based cardanol benzoxazines: A comparative study	Shah, M., Srinivasan, H., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	Journal of Molecular Structure	10.1016/j.molstruc.2022.134802	Article	2-s2.0-85145263866
56	2023	Drilling Parameters and Post-Drilling Residual Tensile Properties of Natural-Fiber-Reinforced Composites: A Review	Goutham, E.R.S., Hussain, S.S., Muthukumar, C., Krishnasamy, S., Kumar, T.S.M., Santulli, C., Palanisamy, S., Parameswaranpillai, J., Jesuarockiam, N.	Journal of Composites Science	10.3390/jcs7040136	Review	2-s2.0-85153765029
57	2023	Reinforcing masonry products through cellulosic fiber and agro waste material: characterization and microstructure	Murugesan, A., Mohamed Ismail, A.A., Srinivasan, D.	Innovative Infrastructure Solutions	10.1007/s41062-023-01102-z	Article	2-s2.0-85153086239
58	2023	Novel Cellulosic Natural Fibers from Abelmoschus Ficulneus Weed: Extraction and Characterization for Potential Application in Polymer Composites	Ramalingam, K., Thiagamani, S.M.K., Pulikkalparambil, H., Muthukumar, C., Krishnasamy, S., Siengchin, S., Alosaimi, A.M., Hussein, M.A., Rangappa, S.M.	Journal of Polymers and the Environment	10.1007/s10924-022-02687-9	Article	2-s2.0-85142717451
59	2023	Synthesis and Characterization of Sustainable Curcumin-Based Bio-benzoxazines for	Muthukumar, N., Arumugam, H., Krishnasamy, B.,	ChemistrySelect	10.1002/slct.202204302	Article	2-s2.0-85151069844

		Antimicrobial and Anticorrosion Applications	Athianna, M., Muthukaruppan, A.				
60	2023	Pedestrian crossing behaviour between transport terminals	Jamwal, S., Gupta, C., Devi, S.R., Ganesh, V.N., Sankar, P., Parthiban, P.	AIP Conference Proceedings	10.1063/5.0120102	Conference Paper	2-s2.0-85152706621
61	2023	Improvement of corrosion resistance of concrete element by using nanotechnology	Porkodi, M., Prasanthni, P., Gibin, S.R., Vijayan, D.S., Gunasekar, S., Ganesh, V.N.	AIP Conference Proceedings	10.1063/5.0120073	Conference Paper	2-s2.0-85152665977
62	2023	Analysis of road traffic fatalities and injuries using artificial neural network: A case study on NH-544	Vishnuvardhan, K., Muthukeerthana, S., Muthuiswarya, S., Ganesh, V.N., Rajkumar, R.	AIP Conference Proceedings	10.1063/5.0119699	Conference Paper	2-s2.0-85152645252
63	2023	Stable single phases of samarium gallium oxide (Sm ₃ GaxOy) nano semiconductor self-assembly for supercapacitor and photocatalytic applications	Shanmugam, P., Dheivasigamani, T., Kovil Pitchai, J.S., Muthukaruppan, A.	Dalton Transactions	10.1039/d3dt00261f	Article	2-s2.0-85152100979
64	2023	Sesamol-based polybenzoxazines for ultra-low-k, high-k and hydrophobic coating applications	Mohamed Mydeen, K., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	New Journal of Chemistry	10.1039/d3nj00531c	Article	2-s2.0-85152094274
65	2023	An enhanced method for running embedded applications in a power-efficient manner	Kumar, N.M.G., Ahmad, A., Dankan Gowda, V., Lokesh, S., Kadam, K.R.R.	Energy Systems Design for Low-Power Computing	10.4018/978-1-6684-4974-5.ch013	Book Chapter	2-s2.0-85158976142
66	2023	Wireless sensor and actuator networks-based reliable data acquisition mechanism	Sharma, A., Dankan Gowda, V., Begum, A.Y., Nageswari, D., Lokesh, S.	Energy Systems Design for Low-Power Computing	10.4018/978-1-6684-4974-5.ch010	Book Chapter	2-s2.0-85158923430
67	2023	Investigation of Wear Behavior in Self-Lubricating ABS Polymer Composites Reinforced with Glass Fiber/ABS and Glass Fiber/Carbon Fiber/ABS Hybrid	Dhandapani, A., Krishnasamy, S., Nagarajan, R., Selvaraj, A.D.A., Thiagamani, S.M.K., Muthukumar, C., Mohammad, F., Al-Lohedan, H.A., Ismail, S.O.	Lubricants	10.3390/lubricants11030131	Article	2-s2.0-85152286945
68	2023	Fault Identification and Classification of Asynchronous Motor Drive Using	Venugopal, G., Udayakumar, A.K., Balashanmugham, A.,	Energies	10.3390/en16062660	Article	2-s2.0-85151441908

		Optimization Approach with Improved Reliability	Houran, M.A., Alsaif, F., Elavarasan, R.M., Raju, K., Alsharif, M.H.				
69	2023	Sensitizing performance of extracted natural dyes on MoO ₃ -included Degussa composite photo-anode in DSSC fabrication	Vignesh Prabhu, T.G., Chandrasekaran, J., Thangaraju, D., Vivek, P., Balasubramani, V.	Journal of Materials Science: Materials in Electronics	10.1007/s10854-023-10056-y	Article	2-s2.0-85150481924
70	2023	Development of sustainable polybenzoxazine-based organic-inorganic hybrid nanocomposites for high voltage insulator applications	Iqbal, M.M., Appasamy, S., Krishnasamy, B., Arumugam, H., Maheshwari, R.V., Vigneshwaran, B., Vasu, C.L., Muthukaruppan, A.	Journal of Materials Science: Materials in Electronics	10.1007/s10854-022-09805-2	Article	2-s2.0-85148686869
71	2023	EBSD analysis of spark plasma sintered SS316-B4C composite	Baranidharan, K., Thirumalai Kumaran, S., Uthayakumar, M., Parameswaran, P., Babu, D.A.	Micron	10.1016/j.micron.2022.103401	Article	2-s2.0-85145265119
72	2023	Photosensitive Benzoxazines Derived from Divanillidene Cyclopentanone/Cyclohexanone for Hydrophobic and Optical Applications	Appasamy, S., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	Macromolecular Chemistry and Physics	10.1002/macp.202200407	Article	2-s2.0-85145237906
73	2023	Turning waste plant fibers into advanced plant fiber reinforced polymer composites: A comprehensive review	Parameswaranpillai, J., Gopi, J.A., Radoor, S., C. D., M.D., Krishnasamy, S., Deshmukh, K., Hameed, N., Salim, N.V., Sienkiewicz, N.	Composites Part C: Open Access	10.1016/j.jcomc.2022.100333	Article	2-s2.0-85144890250
74	2023	An automated software development for analysis of the morphological-tensile property relationship in egg shell bio-based particulate composites using machine learning algorithms	Rani, G.E., Murugeswari, R., Vairamuthu, S., Rajini, N., Mohammad, F., Siengchin, S., Ismail, S.O., Senthilkumar, K.	Composites Part C: Open Access	10.1016/j.jcomc.2022.100343	Article	2-s2.0-85144799534
75	2023	Graphene-guided growth of rare earth-doped Bi ₂ Mo ₂ O ₉ nano self-assembly for enhanced asymmetric	Kovil Pitchai, J.S., Shunmughanathan, B., Dheivasigamani, T., Periyasamy, S.	Sustainable Energy and Fuels	10.1039/d2se01654k	Article	2-s2.0-85149205859

		supercapacitor device performance					
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82	2023	Biodecolorization of Reactive Red 120 in batch and packed bed column using biochar derived from <i>Ulva reticulata</i>	Kumar, M., Gokulan, R., Sujatha, S., Shanmuga Priya, S.P., Praveen, S., Elayaraja, S.	Biomass Conversion and Biorefinery	10.1007/s13399-020-01268-x	Article	2-s2.0-85099033572
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