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Department of Mechanical Engineering

Research Publication - 2020

RESEARCH PUBLICATIONS – 2020

S.No	Names of the authors	Title, Year, Vol, Pages	National / International	Impact Factor, if any	Page No
1	B. Stalina, N. Nagaprasad, V.Vignesh, M. Ravichandran, Nagarajan Rajini, Sikiru Oluwarotimi Ismail, Faruq Mohammad	Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites	Carbohydrate Polymers	7.535	1
2	Koppiahraj K, Bathrinath S, Syed Mithun Ali, Priyabrata Chowdhury, Sanjoy Kumar Paul	An integrated approach to modeling the barriers in implementing green manufacturing practices in SMEs, 2020, Vol. 265 https://doi.org/10.1016/j.jclepro.2020.12.1737	Journal of Cleaner Production	7.246	13
3	S. Vigneshwaran, M. Uthayakumar, V. Arumugaprabu	Potential use of industrial waste-red mud in developing hybrid composites: A waste management approach	Journal of Cleaner Production	7.246	33
4	S. Vigneshwaran, R. Sundarakannan, K.M. John, R. Deepak Joel Johnson, K. Arun Prasath, S. Ajith, V. Arumugaprabu, M. Uthayakumar	Recent advancement in the natural fiber polymer composites: A comprehensive review	Journal of Cleaner Production	7.246	43
5	Mayandi K, N.Rajini, Nadir Ayrilmis, M.P. Indira Devi, Suchart Siengchin	An overview of endurance and ageing performance under various environmental conditions of Hybrid Polymer Composites	Journal of Materials Research and Technology	5.3	67
6	Paul ChristopherJE, Mohamed THSultan, Chithirai Pon Selvan, Siva Irulappasamy	Manufacturing challenges in self-healing technology for polymer composites — a review	Journal of Materials Research and Technology	5.3	95
7	Othman Y Alothman, M Jawaid, K Senthilkumar, M Chandrasekar, Basheer A Alshammari, H Fouad, Mohamed Hashem, Suchart Siengchin	Thermal characterization of date palm/epoxy composites with fillers from different parts of the tree	Journal Of Materials Research And Technology	5.289	105
8	N Nagaraj, S Balasubramaniam, V Venkataraman, Ravichandran Manickam, Rajini N, Ismail Sikiru Oluwarotimi	Effect of cellulosic filler loading on mechanical and thermal properties of date palm seed/vinyl ester composites, 2020, Vol. 147, pp. 53-66 https://doi.org/10.1016/j.ijbiomac.2019.11.247	International Journal of Biological Macromolecules	4.784	115

9	Vigneshwaran Shanmugama, Deepak Joel Johnsonb , Karthik Babuc , Sundarakannan Rajendrana, Arumugaprabu Veerasimmana , Uthayakumar Marimuthu	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. https://doi.org/10.1016/j.polymertesting.2020.106925	Polymer Testing	3.275	129
10	Rendi Kurniawan, Tae Jo Ko, S. Thirumalai Kumaran, Farooq Ahmed	3-DOF ultrasonic elliptical vibration tool holder based on coupled resonance modes for manufacturing micro-groove	Precision Engineering	3.108	147
11	G Kalusuraman, I Siva, Yashwant Munde, Cithirai Pon Selvan, S Anand Kumar, Sandro C Amico	Dynamic-mechanical properties as a function of luffa fibre content and adhesion in a polyester composite, 2020, Vol. 87, https://doi.org/10.1016/j.polymertesting.2020.106538	Polymer Testing	2.943	167
12	Manikandan Rajendran Rajajeyaganthan Ramanathan · P. Ganesan · Rajesh Shanmugavel	Experimental analysis of tamarind seed powder-based flash powder composition for eco-friendly firecrackers. https://doi.org/10.1007/s10973-020-09707-7	Journal of Thermal Analysis and Calorimetry	2.731	177
13	S.Bathrinath, R.K.A.Bhalaji, Syed Mithun Ali, Golam Kabir	Role of Ergonomic Factors Affecting Production of Leather Garment-Based SMEs of India: Implications for Social Sustainability. 10.3390/sym12091414.	Symmetry	2.645	191
14	K. M. John & S. Thirumalai Kumaran	A feasible strategy to produce quality holes using temperature-assisted drilling on CFRP	International Journal of Advanced Manufacturing Technology	2.633	213
15	P. Sivasubramanian , K Mayandia, C. Santulli, A. Alavudeena, N. Rajini	Effect of Fiber Length on Curing and Mechanical Behavior of Pineapple Leaf Fiber (PALF) Reinforced Natural Rubber Composites	Journal Of Natural Fibers	2.622	229
16	S. Sekara, S. Suresh Kumar, S. Vigneshwaran, and G. Velmurugan	Evaluation of Mechanical and Water Absorption Behavior of Natural Fiber-Reinforced Hybrid Biocomposites	Journal of natural fibers	2.622	241
17	Dr VEERASIMMAN, V. Arumugaprabu,	Thermal Properties Of Natural Fiber Sisal Based Hybrid Composites- A Brief Review	Journal of natural fibers	2.622	253
18	Harshad Pingulkar, Ashok Mache, Yashwant Munde, I. Siva	Synergy Of Interlaminar Glass Fiber Hybridization On Mechanical And Dynamic Characteristics Of Jute And Flax Fabric Reinforced Epoxy Composites. https://doi.org/10.1080/15440478.2020.1856280	Journal Of Natural Fibers	2.622	265

19	J. Manivannan, S. Rajesh, K. Mayandi, N. Rajini	Animal fiber characterization and fiber loading effect on mechanical behaviors of sheep wool fiber reinforced polyester composites. https://doi.org/10.1080/15440478.2020.1848743 .	Journal Of Natural Fibers	2.622	281
20	P. Sivasubramanian, K Mayandi, C. Santulli, A. Alavudeen, N. Rajini	Effect of Fiber Length on Curing and Mechanical Behavior of Pineapple Leaf Fiber (PALF) Reinforced Natural Rubber Composites	Journal Of Natural Fibers	2.622	299
21	T Senthil Muthu Kumar, M Chandrasekar, K Senthilkumar, RA Ilyas, SM Sapuan, N Hariram, A Varada Rajulu, N Rajini, Suchart Siengchin	Characterization, Thermal and Antimicrobial Properties of Hybrid Cellulose Nanocomposite Films with in-Situ Generated Copper Nanoparticles in Tamarindus indica Nut Powder	Journal of Polymers and the Environment	2.57	311
22	M Chandrasekar, I Siva, T Senthil Muthu Kumar, K Senthilkumar, Suchart Siengchin, N Rajini	Influence of Fibre Inter-ply Orientation on the Mechanical and Free Vibration Properties of Banana Fibre Reinforced Polyester Composite Laminates	Journal of Polymers and the Environment	2.57	321
23	T Senthil Muthu Kumar, K Senthilkumar, Mantiya Ratanit, N Rajini, Noppavan Chanunpanich, N Hariram, Peerapong Pornwongthong, Suchart Siengchin	Influence of Titanium Dioxide Particles on the Filtration of 1, 4-Dioxane and Antibacterial Properties of Electrospun Cellulose Acetate and Polyvinylidene Fluoride Nanofibrous Membranes	Journal of Polymers and the Environment	2.57	333
24	Levente Ferenc T, Dieter Fauconnier, Rajini Nagarajan, Patrick De Baets	Large-scale tribological characterisation of eco-friendly basalt and jute fibre reinforced thermoset composites	Wear	2.531	343
25	Milan S, Christopher T, Winowlin Jappes J T, Rajini N, Mayandi K, Sikiru Oluwarotimi Ismail, Faruq Mohammad	Characterization of Novel Lignocellulosic Spinifex littoreus Fibers and Their Composites, 2020, Vol. 17, pp. 393–404 https://doi.org/10.1007/s42235-020-0032-5	Journal of Bionic Engineering	2.463	355
26	Nagaraj Nagaprasad, Balasubramaniam Stalin, Venkataraman Vignesh, Manickam Ravichandran, Nagarajan Rajini.	Applicability Of Cellulosic-Based Polyalthia Longigolia Seed Filler Reinforced Vinyl Ester Biocomposites On Tribological Performance	Polymer Composites	2.391	367

27	S.Senthilrajan N.Venkadeswaran Lenin babu M, A.alavudeen	Impact Of Fibre Length And Surface Modification On The Acoustic Behavior Of Jute Fibre https://doi.org/10.1016/j.apacoust.2020.107677	Applied acoustics	2.3	381
28	P. Sethu Ramalingam, K. Mayandi, N.Rajini	Experimental Investigation And Statistical Analysis Of Additively Manufactured Onyx-Carbon Fiber Reinforcedcomposites	Journal of Applied Polymer Science	2.280	391
29	B Anush Raj, Dr. J.T. Winowlin Jappes, Dr.M.Adam Khan, V Dillibabu	Studies on SU718 alloy developed using laser sintering on the additive manufacturing process	OPTIK	2.187	405
30	Mr. Anish Nair, Dr.M.Adam Khan,	Studies on effect of laser processed Stellite 6 material and its electrochemical behavior	OPTIK	2.187	415
31	K. Senthilkumar, Thitinun Ungtrakul, M. Chandrasekar, T. Senthil Muthu Kumar, N. Rajini, Suchart Siengchin, Harikrishnan Pulikkalparambil, Jyotishkumar Parameswaranpillai, Nadir Ayrilmis.	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering	Journal of Polymers and the Environment	2.06	421
32	M. Chandrasekar, I. Siva, T. Senthilmuthukumar, K. Senthilkumar, Suchart Siengchin, N. Rajini	Influence of Fibre Inter-ply Orientation on the Mechanical and Free Vibration Properties of Banana Fibre Reinforced Polyester Composite Laminates https://doi.org/10.1007/s10924-020-01814-8	Journal of Polymers and the Environment	2.06	435
33	Shanmugam Vigneshwaran, KM John, R Deepak Joel Johnson, Marimuthu Uthayakumar, V Arumugaprabu and Sundaresan T Kumaran	Conventional and unconventional machining performance of natural fibre-reinforced polymer composites: A review. https://doi.org/10.1177%2F0731684420958103	Journal of Reinforced Plastics and Composites	1.987	447
34	A. Perumal · A. Azhagurajan · R. Prithivirajan · S. Suresh Kumar	Experimental Investigation and Optimization of Process Parameters in Ti – (6242) Alpha–Beta Alloy Using Electrical Discharge Machining https://doi.org/10.1007/s10904-020-01786-1	Journal of Inorganic and Organometallic Polymers and Materials	1.941	463
35	B Anush Raj, JT Winowlin Jappes, M Adam Khan, V Dillibabu, NC Brintha	Direct metal laser sintered (DMLS) process to develop Inconel 718 alloy for turbine engine components, 2020, Vol. 202, https://doi.org/10.1016/j.ijleo.2019.163735	Optik	1.914	447

36	K Senthilkumar, S Subramaniam, Thitinun Ungtrakul, T Senthil Muthu Kumar, M Chandrasekar, N Rajini, Suchart Siengchin, Jyotishkumar Parameswaranpillai	Dual cantilever creep and recovery behavior of sisal/hemp fibre reinforced hybrid biocomposites: Effects of layering sequence, accelerated weathering and temperature	Journal of Industrial Textiles	1.884	493
37	D.Chellaganesh, Dr.M.Adam Khan, Nouby M. Ghazaly, P. Madindwa Mashinini	Solid particle erosion studies on thermally deposited alumina–titania coatings over aluminium alloy. https://doi.org/10.1007/s12613-020-2099-8	Minerals Metallurgy and Materials	1.7	513
38	K.Koppiahraj , S.Bathrinath, Syed Mithun Ali	A fuzzy ANP-DEMATEL model on faulty behavior risks: Implications for improving safety at the workplace	International Journal of Occupational Safety and Ergonomics	1.601	531
39	K Arun Prasath, V Arumugaprabu, P Amuthakkannan, V Manikandan, R Deepak Joel Johnson	Low velocity impact, compression after impact and morphological studies on flax fiber reinforced with basalt powder filled composites, 2020, Vol. 7 (1) pp. 1-10, https://doi.org/10.1088/2053-1591/ab611e	Materials Research Express	1.449	573
40	T Livingston, A Athijayamani, A Alavudeen	Evaluation of Mechanical Properties of Coconut Shell Particle/Vinyl Ester Composite Based on the Untreated and treated conditions	Materials Research Express	1.449	583
41	R Sundarakannan, V Arumugaprabu, V Manikandan, S Vigneshwaran	Mechanical property analysis of biochar derived from cashew nut shell waste reinforced polymer matrix, 2020, Vol. 6 (12),	Materials Research Express	1.449	591
42	G Kalusuraman, S Thirumalai Kumaran, M Aslan, K Mayandi	Mechanical properties of waste copper slag filled surface activated jute fiber reinforced composite, 2020, Vol. 6 (12)	Materials Research Express	1.449	603
43	Sang Tae Jung, Rendu Kurniawan, S. Thirumalai Kumaran, In Jun Yoon and Tae Jo Ko	Mechanism study of micro-electrical discharge drilling method during micro-dimpling	Journal of Mechanical Science and Technology	1.345	619
44	S Kavitha, P Venkumar	A vibrant crossbreed social spider optimization with genetic algorithm tactic for flexible job shop scheduling problem, 2020, Vol. 53 (1-2) https://doi.org/10.1177/0020294019889085	Measurement and Control	1.229	631
45	M Thirukumaran, JT Winowlin Jappes, I Siva, Rajajeyaganthan Ramanathan, NC Brintha	On the interfacial adhesion of fiber metal laminates using surface modified aluminum 7475 alloy for aviation industries—a study, 2020, Vol. 34 (6), 635-650	Journal of Adhesion Science and Technology	1.210	643

46	KM John, S Thirumalai Kumaran, K Senthil Kumar, S Suresh Kumar, M Aslan, Ü Alver	Mechanical and Vibrational Behavior of Twill Woven Carbon Fiber Reinforced Composites, 2020, Vol. 35 (2), pp. 203-210 https://doi.org/10.3139/217.3918	International Polymer Processing	0.942	659
47	P. Sreeraj, S. Thirumalai Kumaran, S. Suresh Kumar, M. Uthayakumar, M. Pethuraj	Measurement of micro channels produced in AA6351/Rutile composite by wire-EDM. https://doi.org/10.1142/S0218625X20500341	Surface Review Letters	0.835	667
48	RKA Bhalaji, S Bathrinath, SG Ponnambalam, S Saravanasankar	A soft computing methodology to analyze sustainable risks in surgical cotton manufacturing companies, 2020, Vol. 45, pp. 1-22 https://doi.org/10.1007/s12046-020-1306-7	Sādhanā	0.769	691
49	V Balaji, P Venkumar, MS Sabitha, D Amuthaguka	DVSMS: dynamic value stream mapping solution by applying IIoT, 2020, Vol. 45 (1), https://doi.org/10.1007/s12046-019-1251-5	Sādhanā	0.769	713
50	G Kalusuraman, S Thirumalai Kumaran, I Siva, S Anand Kumar	Cutting performance of luffa cylindrica fiber-reinforced composite by abrasive water jet, 2020, Vol. 48 (5) https://doi.org/10.1520/JTE20180330	Journal of Testing and Evaluation	0.711	727
51	S Vigneshwaran, M Uthayakumar, V Arumugaprabu	Prediction and Analysis of Abrasive Water Jet Machining Performance on Hybrid Composite, 2020, Vol. 48 (2), pp. 1505-1519 https://doi.org/10.1520/JTE20180593	Journal of Testing and Evaluation	0.711	739
52	M Uthayakumar, S Thirumalai Kumaran, M Adam Khan, Sebastian Skoczypiec, Wojciech Bizon	Microdrilling of AA (6351)-SiC-B4C Composite Using Hybrid Micro-ECDM Process, 2020, Vol. 48 (4), https://doi.org/10.1520/JTE20180216	Journal of Testing and Evaluation	0.711	755
53	GS Samy, S Thirumalai Kumaran, M Uthayakumar	Observations of Machining Performance during Turning AA6351-B4C Composite, 2020, Vol. 49 (3), https://doi.org/10.1520/JTE20180429	Journal of Testing and Evaluation	0.711	769
54	M Adam Khan, D Chellaganesh, M Uthayakumar, JT Winowlin Jappes, Muthukannan Duraiselvam	Electrochemical Behaviour and Surface Studies on Austenitic Stainless Steel and Nickel-Based Superalloy Dissimilar Weld Joints, 2020, pp. 251-266 https://doi.org/10.1007/978-3-030-18854-2_11	Materials Forming, Machining and Post Processing. (Materials Forming, Machining and Tribology)	Scopus	783
55	A Ajithram, JT Winowlin Jappes, T Senthil Muthu Kumar, N Rajini, A Varada Rajulu, Sanjay	Water Hyacinth for Biocomposites—An Overview, 2020, pp. 171-179 https://doi.org/10.1007/978-3-030-40301-0_8	Biofibers and Biopolymers for Biocomposites	Scopus	799

56	NC Brintha, Shajulin Benedict, JT Winowlin Jappes	Resource allocation in cloud manufacturing using bat algorithm, 2020, Vol.34 (3), pp. 296-310 https://doi.org/10.1504/IJMTM.2020.107309	International Journal of Manufacturing Technology and Management	Scopus	809
57	T Senthil Muthu Kumar, K Senthilkumar, M Chandrasekar, Saravanasankar S, Sanjay Mavinkere Rangappa, Suchart Siengchin, N Rajini	Influence of Fillers on the Thermal and Mechanical Properties of Biocomposites: An Overview, 2020, pp. 111-133, https://doi.org/10.1007/978-3-030-40301-0_5	Biofibers and Biopolymers for Biocomposites	Scopus	825
58	Yashwant S Munde, Ravindra B Ingle, Avinash S Shinde, Siva Irulappasamy	Micromechanical Modelling and Evaluation of Pineapple Leaves Fibre (PALF) Composites Through Representative Volume Element Method, 2020, pp. 249-264 https://doi.org/10.1007/978-981-15-1416-6_12	Pineapple Leaf Fibers	Scopus	849
59	Chithirai Pon Selvan, I Siva, Avinash Shinde, Sandro C Amico	Tribological investigation on nanographene and curauá filled three-phase polymer composites, 2020, https://doi.org/10.1016/j.matpr.2020.01.499	Materials Today: Proceedings	Scopus	865
60	T Premkumar, I Siva, Yashwant Munde, S Rajesh, Sandro C Amico	Basalt fiber hybridization effects on the thermal degradation properties of curauá fiber composites, 2020, https://doi.org/10.1016/j.matpr.2020.01.604	Materials Today: Proceedings	Scopus	871
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62	M Saravana Mohan, PS Samuel Ratna Kumar, S Thirumalai Kumaran, G Sikkandhar Thanish	Impact of Cu-Al-Ni shape memory alloy in dynamic performance of redundant SCARA robot, 2020, https://doi.org/10.1016/j.matpr.2019.12.296	Materials Today: Proceedings	Scopus	895
63	M Ramaganesh, S Bathrinath	Analysing Environmental Factors for Corporate Social Responsibility in Mining Industry Using ISM Methodology, 2020, Vol. 1057, pp. 349-360 https://doi.org/10.1007/978-981-15-0184-5_31	Soft Computing for Problem Solving. (Advances in Intelligent Systems and Computing)	Scopus	901
64	Syed Shuibul Qarnain, S Muthuvel, S Bathrinath	Analyzing factors necessitating conservation of energy in residential buildings of Indian subcontinent: A DEMATEL approach, 2020.	Materials Today: Proceedings	Scopus	913

65	Syed Shuibul Qarnain, S Muthuvel, S Bathrinath	Review on government action plans to reduce energy consumption in buildings amid COVID-19 pandemic outbreak, 2020, https://doi.org/10.1016/j.matpr.2020.04.723	Materials Today: Proceedings	Scopus	919
66	RKA Bhalaji, S Bathrinath, Chitrasen Samantra, S Saravanasankar	Analysis of Human Error of EHS in Healthcare Industry Using TISM, 2020, Vol. 1057, pp. 55, 56	Soft Computing for Problem Solving.	Scopus	925
67	RKA Bhalaji, S Bathrinath, S Saravanasankar	An F-PROMETHEE technique for analysing the risk factors in green manufacturing, 2020, Vol. 764, pp. 1-13	Materials Science and Engineering	Scopus	937
68	K Koppiahraj, S Bathrinath, S Saravanasankar	A fuzzy VIKOR approach for selection of ergonomic assessment method, 2020, https://doi.org/10.1016/j.matpr.2020.02.725	Materials Today: Proceedings	Scopus	949
69	S Bathrinath, RKA Bhalaji, S Saravanasankar	Risk analysis in textile industries using AHP-TOPSIS, 2020, https://doi.org/10.1016/j.matpr.2020.04.722	Materials Today: Proceedings	Scopus	955
70	J Vairamuthu B Stalin M.Adamkhan Fazil	Wear study and elaborate the parametric effect on cupronickel metal Matrix. doi.org/10.1016/j.matpr.2020.09.282	Materials Today: Proceedings	Scopus	963
71	Sp Jani Sajith, Dr.M.Adam Khan Rajaganapthy	Mechanical and thermal insulation properties of surface-modified Agave Americana/carbon fibre hybrid reinforced epoxy composites. doi.org/10.1016/j.matpr.2020.07.180	Materials Today: Proceedings	Scopus	967
72	Dr.M.Adam Khan, Sp Jani Senthil Kumar	Machining parameter optimization using Adam e Gene Algorithm while turning lightweight composite using ceramic cutting tools https://doi.org/10.1016/j.ijlmm.2020.12.005	International Journal of Lightweight Materials and Manufacture	Scopus	975
73	Mr. Anish Nair, V Ramji, R Durai Raj, R Veeramani	Laser cladding of Stellite 6 on EN8 steel – A fuzzy modelling approach. https://doi.org/10.1016/j.matpr.2020.07.431	Materials Today: Proceedings	Scopus	981
74	Mr. Anish Nair, Dr.M.Adam Khan, M Sivakumar, R M Selvaganesh, J Sushanth	Geometric characteristics analysis of hole making through abrasive water jet drilling. https://doi.org/10.1016/j.matpr.2020.07.430	Materials Today: Proceedings	Scopus	987
75	G. Poomarimuthukumar, A.G. Kavin Bhaarathi, R. Mohanaram, G. Ruban Prabhu, I. Siva	Investigation on the effect of erodent velocity on the erosion of 3/2 BLARE laminates. https://doi.org/10.1016/j.matpr.2020.06.504	Materials Today: Proceedings	Scopus	997

76	I. Siva , M. Bharathi, C. Krishnaveni, M. Priyanka, I. Sankar	Frictional response of functionally graded 3/2 natural rubber based 4 lead-bismuth eutectic alloy metal rubber laminates https://doi.org/10.1016/j.matpr.2020.06.510	Materials Today: Proceedings	Scopus	1001
77	I. Siva , DK. Sangaran, P.R. Praveen Balan, R. Rajesh kanna, P. Siddharth	Modal analysis on the additive manufactured robotic segments: Effect of 4 printing densities on the vibrational properties https://doi.org/10.1016/j.matpr.2020.07.230	Materials Today: Proceedings	Scopus	1005
78	P. Sethu Ramalingam, K. Mayandi, T. Srinivasan, I. Jerin Leno, Rajesh Ravi, G. Suresh	A study on E-Glass fiber reinforced interpenetrating polymer network (vinylester/polyurethane) laminate's flexural analysis https://doi.org/10.1016/j.matpr.2020.06.330	Materials Today: Proceedings	Scopus	1009
79	Arun Prasath, V. Arumugaprabu, P. Amuthakkannan, K. Naresh, M.S. Muthugopal, M. Jeganathan, R. Pragadeesh	Quasi Static And Flexural Mechanical Property Evaluation Of Basalt/Flax Reinforced Composites K.	Materials Physics and Mechanics 46 (2020) 132-138	Scopus	1015
80	Arun Prasath, V. V. Arumugaprabu, P. Amuthakkannan, V. Manikandan	Synergistic Utilization of Flax Fiber Polymer Composites A Review	Advanced Materials Letters	Scopus	1023
81	P. Sethu Ramalingam, K. Mayandi, V. Balasubramanian, K. Chandrasekar, V. Mago Stalany, A. Abdul Munaf	Effect of 3D printing process parameters on the impact strength of onyx – Glass fiber reinforced composites. https://doi.org/10.1016/j.matpr.2020.10.467	Materials Today: Proceedings	Scopus	1033
82	P. Sethu Ramalingam, K. Mayandi, G. Rubesh, S.A. Rishivanth, G. Richard Martin	Resource Optimization in Delta Dual Extruder 3D Printer Design using Waste Plastic Resources	Journal of Green Engineering	Scopus	1039
83	M. Armstrong, PrawinJebastin. A, Saicharan. R, Kamal Kumar. C, Sudharsan. P.	Comparative Study on the Computational Analysis of Heat Exchanger Using Steel Pipe, Copper Pipe Before and After Silver Nano Coated	International Journal of Advanced Science and Technology	Scopus	1047
84	M. Manoj Prabhakar, A.K. Saravanan, A. Haiter Lenin, I. Jerin leno, K. Mayandi, P. Sethu Ramalingam	A short review on 3D printing methods, process parameters and materials https://doi.org/10.1016/j.matpr.2020.10.225	Materials Today: Proceedings	Scopus	1057

85	P. Balamurugan, M. Pethuraj, M. Uthayakumar, Ajay Pratap Kushwaha, Kommi Ganesh Naidu, Sai Karthik Chitrada	Electrical discharge machining of Al-sillimanite composites. https://doi.org/10.1016/j.matpr.2020.07.127	Materials Today: Proceedings	Scopus	1065
86	Marimuthu Uthayakumar, Ponnambalam Balamurugan, Kinga Korniejenko, Szymon Gądek, Dariusz Mierzwiński	Abrasive water jet machining of fly ash and metakaolin based geo-polymers. https://doi.org/10.1051/mateconf/202032201020	MATEC Web of Conferences 322, 01020 (2020)	Scopus	1069
87	Sai Maheswaran Baskaran, B Thanga Prasanna, R. Thirumurugan, P. Balamurugan, J Sarathkumar Sebastin	Design and Fabrication of Portable Groundnut Shell Extraction Machine. https://doi.org/10.1063/5.0034376	AIP Conference Proceedings	Scopus	1079
88	M Venkata Pavan, K. Balamurugan, P. Balamurugan	Compressive test Fractured Surface analysis on PLA-Cu composite filament printed at different FDM conditions. https://doi.org/10.1088/1757-899X/988/1/012019	IOP Conference Series: Materials Science and Engineering	Scopus	1087
89	T Deepthi, K. Balamurugan, P. Balamurugan	Parametric Studies of Abrasive Waterjet Machining parameters on Al/LaPO4 using Response Surface Method	IOP Conference Series: Materials Science and Engineering	Scopus	1097
90	S.Bathrinath, R.K.A.Bhalaji, S.Saravanasankar	Risk analysis in textile industries using AHP-TOPSIS. 10.1016/j.matpr.2020.04.722	Materials Today: Proceedings	Scopus	1105
91	S.Bathrinath, R.K.A.Bhalaji, Roopa Ann Koshy, K.Koppiahraj	Identification of the critical activity in heat treatment process using TISM. 10.1016/j.matpr.2020.06.157	Materials Today: Proceedings	Scopus	1113
92	S.Bathrinath, R.K.A.Bhalaji, S.Saravanasankar	A Fuzzy VIKOR method to analyze the risks in lean manufacturing implementation. 10.1016/j.matpr.2020.05.123	Materials Today: Proceedings	Scopus	1119
93	R.K.A.Bhalaji, S.Bathrinath, S.G.Ponnambalam, S.Saravanasankar	Analyze the factors influencing human-robot interaction using MCDM method. 10.1016/j.matpr.2020.06.316	Materials Today: Proceedings	Scopus	1125
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