

Rupinder Singh

List of Publications by Year in descending order

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541
papers

10,957
citations

50566

48
h-index

66518

82
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547
all docs

547
docs citations

547
times ranked

7098
citing authors

#	ARTICLE	IF	CITATIONS
1	Fused filament fabrication: A comprehensive review. Journal of Thermoplastic Composite Materials, 2023, 36, 794-814.	2.6	33
2	On polyvinyl chloride-polypropylene composite matrix for 4D applications: Flowability, mechanical, thermal and morphological characterizations. Journal of Thermoplastic Composite Materials, 2023, 36, 1401-1421.	2.6	11
3	Secondary recycled polyvinylidene "limestone composite in 4D printing applications for heritage structures: Rheological, thermal, mechanical, spectroscopic, and morphological analysis. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 300-311.	1.4	8
4	On twin screw extrusion parametric optimisation using hybrid approach of ANOVA and TOPSIS for 3D printing applications. Advances in Materials and Processing Technologies, 2023, 9, 152-168.	0.8	2
5	On mechanical characterization of 3-D printed PLA-PVC-wood dust-Fe ₃ O ₄ composite. Journal of Thermoplastic Composite Materials, 2022, 35, 36-53.	2.6	40
6	On mechanical, thermal and morphological investigations of almond skin powder-reinforced polylactic acid feedstock filament. Journal of Thermoplastic Composite Materials, 2022, 35, 230-248.	2.6	85
7	Additive manufacturing of smart materials exhibiting 4-D properties: A state of art review. Journal of Thermoplastic Composite Materials, 2022, 35, 1358-1381.	2.6	31
8	On 3D-printed ZnO-reinforced PLA matrix composite: Tensile, thermal, morphological and shape memory characteristics. Journal of Thermoplastic Composite Materials, 2022, 35, 1510-1531.	2.6	18
9	Friction-stir-spot welding of 3D printed ABS and PA6 composites: flexural, thermal and morphological investigations. Advances in Materials and Processing Technologies, 2022, 8, 909-916.	0.8	3
10	Investigations for surface roughness and dimensional accuracy of biomedical implants prepared by combining fused deposition modelling, vapour smoothing and investment casting. Advances in Materials and Processing Technologies, 2022, 8, 843-862.	0.8	5
11	Manufacturing techniques and applications of polymer matrix composites: a brief review. Advances in Materials and Processing Technologies, 2022, 8, 884-894.	0.8	18
12	Multi material 3D printing of PLA-PA6/TiO ₂ polymeric matrix: Flexural, wear and morphological properties. Journal of Thermoplastic Composite Materials, 2022, 35, 2105-2124.	2.6	32
13	On effect of chemical-assisted mechanical blending of barium titanate and graphene in PVDF for 3D printing applications. Journal of Thermoplastic Composite Materials, 2022, 35, 2062-2088.	2.6	21
14	Applications of Thermoplastic Polymers in 3D Printing. , 2022, , 23-32.		6
15	Twin Screw Extrusion for Recycling of Thermoplastics. , 2022, , 651-661.		1
16	ZnO nanoparticle-grafted PLA thermoplastic composites for 3D printing applications: Tuning of thermal, mechanical, morphological and shape memory effect. Journal of Thermoplastic Composite Materials, 2022, 35, 799-825.	2.6	30
17	Three-dimensional printing of dual thermoplastic materials with different layer combinations: Tensile, flexural, and fractured surface investigations. Journal of Thermoplastic Composite Materials, 2022, 35, 826-845.	2.6	10
18	Comparison of mechanical and morphological properties of 3-D printed functional prototypes: Multi and hybrid blended thermoplastic matrix. Journal of Thermoplastic Composite Materials, 2022, 35, 692-707.	2.6	8

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19	Secondary recycled acrylonitrile-butadiene-styrene and graphene composite for 3D/4D applications: Rheological, thermal, magnetometric, and mechanical analyses. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 761-781.	2.6	27
20	On investigations of thermal conductivity, circumferential compressive strength, and surface characterization of 3D-printed hybrid blended magnetostrictive PLA composite. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 631-650.	2.6	19
21	Metal spray layered hybrid additive manufacturing of PLA composite structures: Mechanical, thermal and morphological properties. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 1387-1407.	2.6	7
22	On mechanical and surface properties of electro-active polymer matrix-based 3D printed functionally graded prototypes. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 615-630.	2.6	17
23	Post-processing of ABS Replicas with Vapour Smoothing for Investment Casting Applications. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2022, 92, 97-102.	0.8	28
24	On Electro-Chemical Machining of Thermosetting Polymer Matrix. , 2022, , 436-443.		3
25	Effect of Gradation and Morphological Characteristics of Aggregates on Mechanical Properties of Bituminous Concrete and Dense Bituminous Macadam. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 293-307.	1.0	12
26	Multi-material 3D printed PLA/PA6-TiO2 composite matrix: rheological, thermal, tensile, morphological and 4D capabilities. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 2329-2348.	0.8	5
27	On shear resistance of almond skin reinforced PLA composite matrix-based scaffold using cancellous screw. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 2361-2384.	0.8	4
28	Comparison of Ni-Cr based partial dentures prepared by thermoplastic and wax based investment casting: Mechanical, morphological and in-vitro analysis. <i>Materials Today: Proceedings</i> , 2022, 48, 938-945.	0.9	2
29	On 4D capabilities of chemical assisted mechanical blended ABS-nano graphene composite matrix. <i>Materials Today: Proceedings</i> , 2022, 48, 952-957.	0.9	4
30	Effect of processing parameters on mechanical properties of FDM filament prepared on single screw extruder. <i>Materials Today: Proceedings</i> , 2022, 50, 886-892.	0.9	7
31	Multi-Objective Optimization of WEDM of Aluminum Hybrid Composites Using AHP and Genetic Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8031-8043.	1.7	30
32	On 3D printing of PA6-10% almond skin powder reinforced composite. <i>Materials Today: Proceedings</i> , 2022, 48, 1070-1075.	0.9	1
33	Multi-objective optimization of 3D Printing process using genetic algorithm for fabrication of copper reinforced ABS parts. <i>Materials Today: Proceedings</i> , 2022, 48, 981-988.	0.9	3
34	On crown fabrication in prosthetic dentistry of veterinary patients: a review. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 3494-3513.	0.8	11
35	Three-Dimensional Printing of Innovative Intramedullary Pin Profiles with Direct Metal Laser Sintering. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 240-253.	1.2	31
36	Biocompatible Thermoplastics as Implants/Scaffold. , 2022, , 47-55.		5

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37	On recyclability of thermosetting polymer and wood dust as reinforcement in secondary recycled ABS for nonstructural engineering applications. Journal of Thermoplastic Composite Materials, 2022, 35, 913-937.	2.6	18
38	Characterization of Friction Stir-Welded Polylactic Acid/Aluminum Composite Primed through Fused Filament Fabrication. Journal of Materials Engineering and Performance, 2022, 31, 2391-2409.	1.2	44
39	Use of Thermosetting Polymers for Smart Civil Structures. , 2022, , 662-669.		4
40	A Frame Work on Crown Fabrication for Veterinary Patients Using 3D Thermoplastic and Metal Printing. , 2022, , 8-13.		7
41	Application of Thermoplastic Polymers in 4D Printing. , 2022, , 14-22.		3
42	On Wear of Multi Material 3D Printed PLA Composites. , 2022, , 413-425.		1
43	Comparison of Thermoplastic and Wax Based Patterns for Investment Casting of Partial Dentures: Techno-Economic and Process Capability Analysis. , 2022, , 94-115.		2
44	On programming of polyvinylidene fluorideâ€œlimestone composite for four-dimensional printing applications in heritage structures. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 319-333.	0.7	5
45	On 3D printing of electro-active PVDF-Graphene and Mn-doped ZnO nanoparticle-based composite as a self-healing repair solution for heritage structures. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 1141-1154.	1.5	11
46	Process Capability of Mechanical Blended and Chemical Assisted Mechanical Blended ABS-Graphene Composite. , 2022, , 486-494.		1
47	Magnetic Induction Technology-Based Wireless Sensor Network for Underground Infrastructure, Monitoring Soil Conditions, and Environmental Observation Applications: Challenges and Future Aspects. Journal of Sensors, 2022, 2022, 1-18.	0.6	5
48	On Rheological, Thermal, Mechanical, Morphological, and Piezoelectric Properties and One-Way Programming Features of Polyvinylidene Fluorideâ€œCaCO3 Composites. Journal of Materials Engineering and Performance, 2022, 31, 4998-5012.	1.2	12
49	Twin Screw Extrusion for Recycling of LDPE Domestic Waste by Cu Doped ZnO Nanoparticles Reinforcement. , 2022, , .		0
50	Two-way programming of secondary recycled poly(lactic)acid composite matrix using magnetic field as stimulus. , 2022, , 35-50.		1
51	PVDF-graphene-BaTiO3 composite for 4D applications. , 2022, , 103-119.		0
52	3D printed graphene-reinforced polyvinylidene fluoride composite for piezoelectric properties. , 2022, , 51-66.		2
53	On characterization of rechargeable, flexible electrochemical energy storage device. , 2022, , 67-88.		2
54	Graphene-reinforced acrylonitrile butadiene styrene composite as smart material for 4D applications. , 2022, , 17-33.		1

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55	On dual/multimaterial composite matrix for smart structures: a case study of ABS-PLA, HIPS-PLA-ABS. , 2022, , 89-101.		0
56	Hydrothermal stimulus for 4D capabilities of PA6-Al-Al ₂ O ₃ composite. , 2022, , 121-145.		0
57	On Development of Cu Doped ZnO Nanoparticles Reinforced With ABS as Feedstock Filament for 3D Printing Applications. , 2022, , .		0
58	On 3D printed multiblended and hybrid-blended poly(lactic)acid composite matrix for self-assembly. , 2022, , 1-15.		0
59	On PLAâ€ZnO composite matrix for shape memory effect. , 2022, , 147-160.		1
60	On Process Capability of PVC-PP Composite Feedstock Filament for 3D Printing Applications. , 2022, , .		0
61	Implementation of Taguchi and Genetic Algorithm Techniques for Prediction of Optimal Part Dimensions for Polymeric Biocomposites in Fused Deposition Modeling. International Journal of Biomaterials, 2022, 2022, 1-7.	1.1	8
62	Performance Comparison and Critical Finite Element Based Experimental Analysis of Various Forms of Reinforcement Retaining Structural System. Mathematical Problems in Engineering, 2022, 2022, 1-13.	0.6	7
63	Process Parametric Optimization for 3D Printing of ABS Based Multi-Structured Functional Prototypes. , 2022, , .		0
64	3D Printing of ABS-Cu-ZnO Based Composite Structures: Mechanical and Morphological Investigations. , 2022, , .		0
65	On Flexural Strength of 3D Printed ABS Based Meta-structure. , 2022, , .		0
66	On Multi-factor Optimization for Preparation of Feedstock Filament of PVC-PP-HAp Composite for 3D Printing. , 2022, , .		0
67	On Flame Retardant and Dielectric Properties of Acrylonitrile Butadiene Styrene-Melamine Formaldehyde Composite. , 2022, , 336-342.		1
68	Impact of Process Variables of Acetone Vapor Jet Drilling on Surface Roughness and Circularity of 3D-Printed ABS Parts: Fabrication and Studies on Thermal, Morphological, and Chemical Characterizations. Polymers, 2022, 14, 1367.	2.0	12
69	Comparative Drug Release Investigations for Diclofenac Sodium Drug (DS) by Chitosan-Based Grafted and Crosslinked Copolymers. Materials, 2022, 15, 2404.	1.3	14
70	Optimization of FDM Printing Process Parameters on Surface Finish, Thickness, and Outer Dimension with ABS Polymer Specimens Using Taguchi Orthogonal Array and Genetic Algorithms. Mathematical Problems in Engineering, 2022, 2022, 1-13.	0.6	19
71	Preference Index of Sustainable Natural Fibers in Stone Matrix Asphalt Mixture Using Waste Marble. Materials, 2022, 15, 2729.	1.3	16
72	On comparison of recycled LDPE and LDPEâ€bakelite composite based 3D printed patch antenna. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 842-856.	0.7	14

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73	Multi-stage Primary and Secondary Recycled PLA Composite Matrix for 3D Printing Applications. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2022, 92, 677-698.	0.8	1
74	On 3D-Printed Acrylonitrile Butadiene Styrene-Based Sensors: Rheological, Mechanical, Morphological, Radio Frequency, and 4D Capabilities. Journal of Materials Engineering and Performance, 2022, 31, 8760-8774.	1.2	10
75	On Development of Alternating Layer Acrylonitrile Butadiene Styrene-Al Composite Structures Using Additive Manufacturing. Journal of Materials Engineering and Performance, 2022, 31, 9349-9361.	1.2	1
76	Multifunctional Modified Chitosan Biopolymers for Dual Applications in Biomedical and Industrial Field: Synthesis and Evaluation of Thermal, Chemical, Morphological, Structural, In Vitro Drug-Release Rate, Swelling and Metal Uptake Studies. Sensors, 2022, 22, 3454.	2.1	7
77	Correlation of Mechanical and Rheological Properties of Al-Al ₂ O ₃ -Nylon 6 Composite Feedstock Filament for Rapid Tooling. Mechanical Engineering Series, 2022, , 101-105.	0.1	0
78	On 3D printed biomedical sensors for non-enzymatic glucose sensing applications. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 1057-1069.	1.0	10
79	Effects of Elevated Temperature on the Residual Behavior of Concrete Containing Marble Dust and Foundry Sand. Materials, 2022, 15, 3632.	1.3	23
80	Impact of Unsustainable Environmental Conditions Due to Vehicular Emissions on Associated Lifetime Cancer Risk in India: A Novel Approach. International Journal of Environmental Research and Public Health, 2022, 19, 6459.	1.2	2
81	On the use of thermoplastic composite slit as a guide for ECM. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	0.8	3
82	Intramedullary pin fixation in 3D printed canine femur bone model for preoperative surgical planning. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	0.8	5
83	3D printed innovative customized solution for regulating weathering effect on heritage structures. Materials Letters, 2022, 324, 132717.	1.3	6
84	Effect of process parameters on surface roughness of 316L stainless steel coated 3D printed PLA parts. Materials Today: Proceedings, 2022, 68, 734-741.	0.9	8
85	Investigations on Primary and Secondary Recycling of PLA and its Composite for Biomedical and Sensing Applications. Journal of the Institution of Engineers (India): Series C, 2022, 103, 821-836.	0.7	13
86	Comparison of DMLS and DMLS-waste assisted investment casting. Materials Letters, 2022, 324, 132782.	1.3	6
87	Investigations for tensile, compressive and morphological properties of 3D printed functional prototypes of PLA-PEKK-HAp-CS. Journal of Thermoplastic Composite Materials, 2021, 34, 1408-1427.	2.6	23
88	Investigations on 3D printed thermosetting and ceramic-reinforced recycled thermoplastic-based functional prototypes. Journal of Thermoplastic Composite Materials, 2021, 34, 1103-1122.	2.6	21
89	On secondary recycling of ZrO ₂ -reinforced HDPE filament prepared from domestic waste for possible 3-D printing of bearings. Journal of Thermoplastic Composite Materials, 2021, 34, 1254-1272.	2.6	18
90	Study on barium titanate and graphene reinforced PVDF matrix for 4D applications. Journal of Thermoplastic Composite Materials, 2021, 34, 1234-1253.	2.6	33

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91	Investigations for Wear Characteristics of Aluminium-Based Metal Matrix Composite Prepared by Hybrid Reinforcement. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2021, 91, 569-576.	0.8	2
92	Friction Welding for Functional Prototypes of PA6 and ABS with Al Powder Reinforcement. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2021, 91, 351-359.	0.8	42
93	Reinforced non-conventional material composites: a comprehensive review. Advances in Materials and Processing Technologies, 2021, 7, 333-342.	0.8	6
94	Mechanical, Rheological and Thermal Investigations of Biocompatible Feedstock Filament Comprising of PVC, PP and HAp. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2021, 91, 159-168.	0.8	3
95	Waste thermosetting polymer and ceramic as reinforcement in thermoplastic matrix for sustainability: Thermomechanical investigations. Journal of Thermoplastic Composite Materials, 2021, 34, 523-535.	2.6	22
96	Friction stir welding of 3D printed melt flow compatible dissimilar thermoplastic composites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1878-1890.	1.1	11
97	PLA-PEKK-HAp-CS composite scaffold joining with friction stir spot welding. Journal of Thermoplastic Composite Materials, 2021, 34, 745-764.	2.6	10
98	Minimum quantity lubrication turning of hard to cut materials – A review. Materials Today: Proceedings, 2021, 37, 3601-3605.	0.9	6
99	Investigation of hardness and tensile strength in TIG welded specimens under influence of external electro-magnetic field. Materials Today: Proceedings, 2021, 37, 3498-3500.	0.9	1
100	An experimental examination of temperature variation in magnetic assisted abrasive honing process. Materials Today: Proceedings, 2021, 37, 3494-3497.	0.9	1
101	3D printed tensile and flexural prototypes of thermoplastic matrix reinforced with multi-materials: A statistical analysis. Materials Today: Proceedings, 2021, 44, 79-85.	0.9	3
102	A Frame Work on Electrochemical Machining of PA6–50%Al Composite Matrix. , 2021, , .		2
103	Investigations on Chemical Assisted Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO3-Gr Composite. , 2021, , .		0
104	On Investigating the Acrylonitrile Butadiene Styrene-Melamine Formaldehyde Composite Matrix for 4D Applications. , 2021, , .		0
105	Manufacturing of Conducting Polymer-Based Flexible Batteries. , 2021, , .		0
106	Flexible and Wearable Patch Antennas Using Additive Manufacturing: A Framework. , 2021, , .		3
107	On Electro-Chemical Machining of ABS-15% Al. , 2021, , .		0
108	Investigations of Graphene Reinforced Acrylonitrile-Butadiene-Styrene Matrix Prototypes Produced Via Functional Deposition Modeling (FDM). , 2021, , 847-854.		1

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109	Post Treatment for Super Finishing of 3d Printed Thermosetting Polymers Based Functional Prototypes. , 2021, , .		1
110	Matrix Co-Relation for PLA-HAp-CS Based Scaffold for Rapid Joining Using Friction Stir Spot Welding. , 2021, , .		0
111	On Multi-Factor Optimization for Hybrid Feed-Stock Filament of PLA Using TOPSIS. , 2021, , .		0
112	Optimization of FDM for Fabrication of PLA-HAp-CS Based Functional Prototypes/Scaffolds Using Matrix Co-Relation. , 2021, , .		0
113	On Investigations of Co-Relational Matrix for Preparation of Feedstock Filament by Mn Doped ZnO Reinforcement in Nylon 6. , 2021, , .		0
114	On Co-Relational Analysis for Properties of PLA Composite Reinforced With Mn Doped ZnO Nano Particles. , 2021, , .		0
115	Thermoplastics as Metamaterials. , 2021, , .		0
116	On Correlation of Rheological, Thermal, Mechanical and Morphological Properties of Mechanically Blended PVDF-Graphene Composite for 4d Applications. , 2021, , .		0
117	Mechanical Extrusion for Recycling of Thermosetting Polymers. , 2021, , .		0
118	On Wear Properties of Mechanical Blended and Chemical Assisted Mechanical Blended ABS-Graphene Reinforced Composites. , 2021, , .		0
119	On Establishing a Co-Relational Matrix for Recycling of HDPE by Mn Doped ZnO Nano Particles Reinforcement. , 2021, , .		0
120	Mechanical and Morphological Analysis of Ni-Cr Based Partial Dentures: A Comparative Study on Traditional and 3D Printed Assisted Investment Casting. , 2021, , .		0
121	Fabrication of PLA-HAp-CS Based Feed-Stock Filament by Twin-Screw Extrusion Using Matrix Co-Relation. , 2021, , .		0
122	Comparison of Mechanical Blended and Chemical Assisted Mechanical Blended ABS-Graphene Reinforced Composite for 3D Printing Applications. , 2021, , .		0
123	On Mn doped ZnO nano particles reinforced in PVDF matrix for fused filament fabrication: Mechanical, thermal, morphological and 4D properties. Journal of Manufacturing Processes, 2021, 62, 817-832.	2.8	22
124	Economic evaluation of a hybrid renewable energy system (HRES) using hybrid optimization model for electric renewable (HOMER) software”a case study of rural India. International Journal of Low-Carbon Technologies, 2021, 16, 814-821.	1.2	19
125	A review on cutting fluids used in machining processes. Engineering Research Express, 2021, 3, 012002.	0.8	27
126	Characterization of in-House-Developed Mn-ZnO-Reinforced Polyethylene: A Sustainable Approach for Developing Fused Filament Fabrication-Based Filament. Journal of Materials Engineering and Performance, 2021, 30, 5368-5382.	1.2	8

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127	On recyclability of thermoplastic ABS polymer as fused filament for FDM technique of additive manufacturing. World Journal of Engineering, 2021, ahead-of-print, .	1.0	5
128	Design and Analysis of Hybrid Fused Filament Fabrication Apparatus for Fabrication of Composites. Current Materials Science, 2021, 14, .	0.2	0
129	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. Polymers, 2021, 13, 1702.	2.0	52
130	Investigations on Melt Flow Rate and Tensile Behaviour of Single, Double and Triple-Sized Copper Reinforced Thermoplastic Composites. Materials, 2021, 14, 3504.	1.3	18
131	Material-specific properties and applications of additive manufacturing techniques: a comprehensive review. Bulletin of Materials Science, 2021, 44, 1.	0.8	32
132	Rheological, mechanical, thermal, tribological and morphological properties of PLA-PEKK-HAp-CS composite. Journal of Central South University, 2021, 28, 1615-1626.	1.2	5
133	Comparison of EDM and ECM machined AISI 304 steel: Surface roughness, hardness and morphological characteristics. Materials Today: Proceedings, 2021, , .	0.9	4
134	Evaluation of machinability-based sustainability indicators in the eco-benign turning of Ti3Al2.5V alloy with textured tools. International Journal of Advanced Manufacturing Technology, 2021, 116, 3051-3061.	1.5	5
135	Assessing the Applicability of Photocatalytic-Concrete Blocks in Reducing the Concentration of Ambient NO2 of Chandigarh, India, Using Boxâ€™Behnken Response Surface Design Technique: A Holistic Sustainable Development Approach. Journal of Chemistry, 2021, 2021, 1-12.	0.9	35
136	On process modelling of cold chamber die casting of Al alloy by using buckinghamâ€™s Î approach. Materials Today: Proceedings, 2021, 48, 1416-1416.	0.9	1
137	On flexural and pull out properties of smart polymer based 3D printed functional prototypes. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	0
138	An Apparatus Designed for Coating and Coloration of Filaments Used in Fused Filament Fabrication (FFF) 3D Printing. Recent Patents on Mechanical Engineering, 2021, 14, 541-549.	0.2	1
139	Deposition angle prediction of Fused Deposition Modeling process using ensemble machine learning. ISA Transactions, 2021, 116, 121-128.	3.1	20
140	On Preparation of CaCO3 Reinforced Polypropylene Composite With 3D Printing for Biomedical Application. , 2021, , .		0
141	Co-Relationship of Mechanical, Thermal and Morphological Properties of PVDF-ZnO Composite Materials. , 2021, , .		0
142	Recycling of Medical Waste Thermoplastics. , 2021, , .		0
143	On Dynamic Mechanical Analysis of Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO3-Gr Composite. , 2021, , .		0
144	On Nanographene-Reinforced Polyvinylidene Fluoride Composite Matrix for 4D Applications. Journal of Materials Engineering and Performance, 2021, 30, 4860-4871.	1.2	21

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145	A Comprehensive Review on Composite Materials, Applications and Future Challenges of Friction Welding. Springer Series in Advanced Manufacturing, 2021, , 1-31.	0.2	1
146	3D printed scaffolds for tissue engineering applications: Mechanical, morphological, thermal, in-vitro and in-vivo investigations. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 205-216.	2.3	21
147	A comparative study on investment casting of dental crowns for veterinary dentistry by using ABS patterns with and without wax coating. E3S Web of Conferences, 2021, 309, 01020.	0.2	3
148	On rheological, mechanical, thermal, wear and morphological properties of melamine formaldehyde reinforced recycled ABS for sustainable manufacturing. E3S Web of Conferences, 2021, 309, 01081.	0.2	3
149	3-D Printer Robot for Civil Construction: A Bond Graph Approach. , 2021, , .		0
150	A Systematic Review on the Performance Characteristics of Sustainable, Unfired Admixed Soil Blocks for Agricultural and Industrial Waste Management. Advances in Materials Science and Engineering, 2021, 2021, 1-19.	1.0	30
151	Optimization of Turning Parameters During Machining of Ti-6Al-4V Alloy with Surface Textured Tools Under Dry/MQL Environments. Lecture Notes on Multidisciplinary Industrial Engineering, 2021, , 605-619.	0.4	1
152	On Investigation of Dimensional Deviation for Hybrid Composite Matrix of PLA. Lecture Notes in Mechanical Engineering, 2021, , 99-107.	0.3	0
153	Management of Cattle Dung and Novel Bioelectricity Generation Using Microbial Fuel Cells: An Ingenious Experimental Approach. International Journal of Chemical Engineering, 2021, 2021, 1-10.	1.4	3
154	Multi-Factor Optimization for Preparation of Mechanical Blended and Chemical Assisted Mechanical Blended ABS-Graphene Composite for 3D Printing. , 2021, , .		0
155	On Development of Thermoplastics Based Meta-structures by FFF Based 3D Printing. , 2021, , .		0
156	Secondary Recycling of HDPE Domestic Waste by Reinforcement of Cu Doped ZnO Nanoparticles for 3D Printing Applications. , 2021, , .		0
157	Correlation Matrix for Mechanical, Rheological and Morphological Properties of PP-CaCO ₃ Composites. , 2021, , .		0
158	On Process Capability Analysis for Commercial Fabrication of ABS Based Multi-Structured Products Using 3D Printing. , 2021, , .		0
159	Solid Polymer Waste Materials for Repairing of Heritage Composite Structure: An Additive Manufacturing Approach. , 2020, , 557-562.		3
160	Energy Storage Device From Polymeric Waste Based Nano-Composite by 3D Printing. , 2020, , 425-432.		0
161	Development of PLA-HAp-CS-based biocompatible functional prototype: A case study. Journal of Thermoplastic Composite Materials, 2020, 33, 305-323.	2.6	42
162	Experimental Investigations for Development of Aluminum MMC With Hybrid Reinforcement and Vacuum Molding. , 2020, , 301-311.		0

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163	Investigations for Barium Titanate and Graphene Reinforced PVDF Matrix for 4D Applications. , 2020, , 366-375.		6
164	Multifactor optimization of FDM process parameters for development of rapid tooling using SiC/Al ₂ O ₃ -reinforced LDPE filament. Journal of Thermoplastic Composite Materials, 2020, 33, 581-598.	2.6	13
165	A Comprehensive Study for 3D Printing of Rapid Tooling From Reinforced Waste Thermoplastics. , 2020, , 114-144.		4
166	Application of Nano Porous Materials for Energy Conservation and Storage. , 2020, , 42-50.		5
167	Preparation of Partial Denture With Nano HAp-PLA Composite Under Cryogenic Grinding Environment Using 3D Printing. , 2020, , 517-522.		4
168	Biocompatible Thermoplastic Composite Blended With HAp and CS for 3D Printing. , 2020, , 379-388.		3
169	Development of HAp Reinforced Biodegradable Porous Structure Through Polymer Deposition Technology for Tissue Engineering Applications. , 2020, , 196-215.		0
170	Experimental Investigations for Development of Conductive Ceramic Composites with Microwave Sintering and Their Electric Discharge Machining. , 2020, , 312-321.		0
171	Joining of 3D Printed Dissimilar Thermoplastics With Consumable Tool Through Friction Stir Spot Welding: A Case Study. , 2020, , 91-96.		3
172	Joining of 3D Printed Dissimilar Thermoplastics With Nonconsumable Tool Through Friction Stir Welding: A Case Study. , 2020, , 109-113.		0
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