

# Rupinder Singh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

502  
papers

7,255  
citations

40  
h-index

70  
g-index

547  
ext. papers

9,024  
ext. citations

2.3  
avg, IF

7.1  
L-index

#	Paper	IF	Citations
502	Twin Screw Extrusion for Recycling of LDPE Domestic Waste by Cu Doped ZnO Nanoparticles Reinforcement <b>2022</b> ,		
501	Two-way programming of secondary recycled poly(lactic)acid composite matrix using magnetic field as stimulus <b>2022</b> , 35-50		
500	PVDF-graphene-BaTiO <sub>3</sub> composite for 4D applications <b>2022</b> , 103-119		
499	3D printed graphene-reinforced polyvinylidene fluoride composite for piezoelectric properties <b>2022</b> , 51-66		
498	On characterization of rechargeable, flexible electrochemical energy storage device <b>2022</b> , 67-88		
497	Graphene-reinforced acrylonitrile butadiene styrene composite as smart material for 4D applications <b>2022</b> , 17-33		
496	On dual/multimaterial composite matrix for smart structures: a case study of ABS-PLA, HIPS-PLA-ABS <b>2022</b> , 89-101		
495	Hydrothermal stimulus for 4D capabilities of PA6-Al-Al <sub>2</sub> O <sub>3</sub> composite <b>2022</b> , 121-145		
494	On Development of Cu Doped ZnO Nanoparticles Reinforced With ABS as Feedstock Filament for 3D Printing Applications <b>2022</b> ,		
493	On 3D printed multiblended and hybrid-blended poly(lactic)acid composite matrix for self-assembly <b>2022</b> , 1-15		
492	On PLA/ZnO composite matrix for shape memory effect <b>2022</b> , 147-160		0
491	Implementation of Taguchi and Genetic Algorithm Techniques for Prediction of Optimal Part Dimensions for Polymeric Biocomposites in Fused Deposition Modeling.. <i>International Journal of Biomaterials</i> , <b>2022</b> , 2022, 4541450	3.2	3
490	Performance Comparison and Critical Finite Element Based Experimental Analysis of Various Forms of Reinforcement Retaining Structural System. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-13	1.1	1
489	Magnetic Induction Technology-Based Wireless Sensor Network for Underground Infrastructure, Monitoring Soil Conditions, and Environmental Observation Applications: Challenges and Future Aspects. <i>Journal of Sensors</i> , <b>2022</b> , 2022, 1-18	2	2
488	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.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	4
487	Comparative Drug Release Investigations for Diclofenac Sodium Drug (DS) by Chitosan-Based Grafted and Crosslinked Copolymers.. <i>Materials</i> , <b>2022</b> , 15,	3.5	4
486	Optimization of FDM Printing Process Parameters on Surface Finish, Thickness, and Outer Dimension with ABS Polymer Specimens Using Taguchi Orthogonal Array and Genetic Algorithms. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-13	1.1	1

485	Preference Index of Sustainable Natural Fibers in Stone Matrix Asphalt Mixture Using Waste Marble.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
484	On comparison of recycled LDPE and LDPEBakelite composite based 3D printed patch antenna. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2022</b> , 236, 842-856	1.3	1
483	Investigations on Mechanical Properties of Reinforced Secondary Recycled ABS as Filament for 3D Printing Applications. <i>Mechanical Engineering Series</i> , <b>2022</b> , 41-50	0.3	
482	Mechanical and Morphological Properties Correlation of PLA-PVC-Wood Powder-Fe3O4 Composite Matrix for 3D Printing. <i>Mechanical Engineering Series</i> , <b>2022</b> , 51-58	0.3	
481	Correlation of Mechanical and Rheological Properties of Al-Al2O3-Nylon 6 Composite Feedstock Filament for Rapid Tooling. <i>Mechanical Engineering Series</i> , <b>2022</b> , 101-105	0.3	
480	On 3D printed biomedical sensors for non-enzymatic glucose sensing applications.. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2022</b> , 95441192211001176	1.7	1
479	Multi-factor Optimization for Joining of Polylactic Acid-Hydroxyapatite-Chitosan Based Scaffolds by Rapid Joining Process. <i>Materials Forming, Machining and Tribology</i> , <b>2022</b> , 93-103	0.5	
478	On Parametric Optimization of TSE for PVDF-Graphene-MnZnO Composite Based Filament Fabrication for 3D/4D Printing Applications. <i>Materials Forming, Machining and Tribology</i> , <b>2022</b> , 75-91	0.5	0
477	Effects of Elevated Temperature on the Residual Behavior of Concrete Containing Marble Dust and Foundry Sand. <i>Materials</i> , <b>2022</b> , 15, 3632	3.5	1
476	Impact of Unsustainable Environmental Conditions Due to Vehicular Emissions on Associated Lifetime Cancer Risk in India: A Novel Approach. <i>International Journal of Environmental Research and Public Health</i> , <b>2022</b> , 19, 6459	4.6	
475	On Process Capability Analysis for Commercial Fabrication of ABS Based Multi-Structured Products Using 3D Printing <b>2021</b> ,		
474	Process Capability of Mechanical Blended and Chemical Assisted Mechanical Blended ABS-Graphene Composite <b>2021</b> ,		
473	On Development of Thermoplastics Based Meta-structures by FFF Based 3D Printing <b>2021</b> ,		
472	Secondary Recycling of HDPE Domestic Waste by Reinforcement of Cu Doped ZnO Nanoparticles for 3D Printing Applications <b>2021</b> ,		
471	Correlation Matrix for Mechanical, Rheological and Morphological Properties of PP-CaCO3 Composites <b>2021</b> ,		
470	A comparative study on investment casting of dental crowns for veterinary dentistry by using ABS patterns with and without wax coating. <i>E3S Web of Conferences</i> , <b>2021</b> , 309, 01020	0.5	0
469	On rheological, mechanical, thermal, wear and morphological properties of melamine formaldehyde reinforced recycled ABS for sustainable manufacturing. <i>E3S Web of Conferences</i> , <b>2021</b> , 309, 01081	0.5	0
468	A Systematic Review on the Performance Characteristics of Sustainable, Unfired Admixed Soil Blocks for Agricultural and Industrial Waste Management. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-19	1.5	2

467	Optimization of Turning Parameters During Machining of Ti-6Al-4 V Alloy with Surface Textured Tools Under Dry/MQL Environments. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , <b>2021</b> , 605-619	0.3	1
466	On Investigation of Dimensional Deviation for Hybrid Composite Matrix of PLA. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 99-107	0.4	
465	Management of Cattle Dung and Novel Bioelectricity Generation Using Microbial Fuel Cells: An Ingenious Experimental Approach. <i>International Journal of Chemical Engineering</i> , <b>2021</b> , 2021, 1-10	2.2	0
464	A review on cutting fluids used in machining processes. <i>Engineering Research Express</i> , <b>2021</b> , 3, 012002	0.9	6
463	Characterization of in-House-Developed Mn-ZnO-Reinforced Polyethylene: A Sustainable Approach for Developing Fused Filament Fabrication-Based Filament. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 5368-5382	1.6	4
462	On recyclability of thermoplastic ABS polymer as fused filament for FDM technique of additive manufacturing. <i>World Journal of Engineering</i> , <b>2021</b> , ahead-of-print,	1.8	2
461	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. <i>Polymers</i> , <b>2021</b> , 13,	4.5	20
460	Investigations on Melt Flow Rate and Tensile Behaviour of Single, Double and Triple-Sized Copper Reinforced Thermoplastic Composites. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
459	Material-specific properties and applications of additive manufacturing techniques: a comprehensive review. <i>Bulletin of Materials Science</i> , <b>2021</b> , 44, 1	1.7	7
458	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> , <b>2021</b> ,	1.4	1
457	Rheological, mechanical, thermal, tribological and morphological properties of PLA-PEKK-HAp-CS composite. <i>Journal of Central South University</i> , <b>2021</b> , 28, 1615-1626	2.1	2
456	Effect of processing parameters on mechanical properties of FDM filament prepared on single screw extruder. <i>Materials Today: Proceedings</i> , <b>2021</b> , 50, 886-886	1.4	1
455	Evaluation of machinability-based sustainability indicators in the eco-benign turning of Ti3Al2.5V alloy with textured tools. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 116, 3051-3061	3.2	3
454	Assessing the Applicability of Photocatalytic-Concrete Blocks in Reducing the Concentration of Ambient NO <sub>2</sub> of Chandigarh, India, Using BoxBehnken Response Surface Design Technique: A Holistic Sustainable Development Approach. <i>Journal of Chemistry</i> , <b>2021</b> , 2021, 1-12	2.3	8
453	Friction Welding for Functional Prototypes of PA6 and ABS with Al Powder Reinforcement. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2021</b> , 91, 351-359	0.9	29
452	Reinforced non-conventional material composites: a comprehensive review. <i>Advances in Materials and Processing Technologies</i> , <b>2021</b> , 7, 333-342	0.8	5
451	Mechanical, Rheological and Thermal Investigations of Biocompatible Feedstock Filament Comprising of PVC, PP and HAp. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2021</b> , 91, 159-168	0.9	2
450	Waste thermosetting polymer and ceramic as reinforcement in thermoplastic matrix for sustainability: Thermomechanical investigations. <i>Journal of Thermoplastic Composite Materials</i> , <b>2021</b> , 34, 523-535	1.9	18

449	Friction stir welding of 3D printed melt flow compatible dissimilar thermoplastic composites. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2021</b> , 235, 1878-1890	1.3	6
448	PLA-PEKK-HAp-CS composite scaffold joining with friction stir spot welding. <i>Journal of Thermoplastic Composite Materials</i> , <b>2021</b> , 34, 745-764	1.9	7
447	Minimum quantity lubrication turning of hard to cut materials [A review]. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 3601-3605	1.4	2
446	Investigation of hardness and tensile strength in TIG welded specimens under influence of external electro-magnetic field. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 3498-3500	1.4	0
445	An experimental examination of temperature variation in magnetic assisted abrasive honing process. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 3494-3497	1.4	
444	3D printed tensile and flexural prototypes of thermoplastic matrix reinforced with multi-materials: A statistical analysis. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 79-85	1.4	1
443	A Frame Work on Electrochemical Machining of PA650%Al Composite Matrix <b>2021</b> ,		0
442	Investigations on Chemical Assisted Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO3-Gr Composite <b>2021</b> ,		
441	Manufacturing of Conducting Polymer-Based Flexible Batteries <b>2021</b> ,		
440	Flexible and Wearable Patch Antennas Using Additive Manufacturing: A Framework <b>2021</b> ,		1
439	Investigations of Graphene Reinforced Acrylonitrile-Butadiene-Styrene Matrix Prototypes Produced Via Functional Deposition Modeling (FDM) <b>2021</b> , 847-854		1
438	Post Treatment for Super Finishing of 3d Printed Thermosetting Polymers Based Functional Prototypes <b>2021</b> ,		1
437	Matrix Co-Relation for PLA-HAp-CS Based Scaffold for Rapid Joining Using Friction Stir Spot Welding <b>2021</b> ,		
436	On Multi-Factor Optimization for Hybrid Feed-Stock Filament of PLA Using TOPSIS <b>2021</b> ,		
435	Optimization of FDM for Fabrication of PLA-HAp-CS Based Functional Prototypes/Scaffolds Using Matrix Co-Relation <b>2021</b> ,		
434	On Investigations of Co-Relational Matrix for Preparation of Feedstock Filament by Mn Doped ZnO Reinforcement in Nylon 6 <b>2021</b> ,		
433	On Electro-Chemical Machining of Thermosetting Polymer Matrix <b>2021</b> ,		0
432	On Co-Relational Analysis for Properties of PLA Composite Reinforced With Mn Doped ZnO Nano Particles <b>2021</b> ,		

431 Thermoplastics as Metamaterials **2021**,

430 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 5 7

429 On 3D printing of PA6-10% almond skin powder reinforced composite. *Materials Today: Proceedings*, **2021**, 48, 1070-1070 1.4

428 Multi-objective optimization of 3D Printing process using genetic algorithm for fabrication of copper reinforced ABS parts. *Materials Today: Proceedings*, **2021**, 48, 981-981 1.4

427 On process modelling of cold chamber die casting of Al alloy by using buckingham  $\pi$  approach. *Materials Today: Proceedings*, **2021**, 48, 1416-1416 1.4 0

426 On flexural and pull out properties of smart polymer based 3D printed functional prototypes. *Sadhana - Academy Proceedings in Engineering Sciences*, **2021**, 46, 1 1

425 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 0.3

424 Deposition angle prediction of Fused Deposition Modeling process using ensemble machine learning. *ISA Transactions*, **2021**, 116, 121-128 5.5 4

423 On Dynamic Mechanical Analysis of Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO<sub>3</sub>-Gr Composite **2021**,

422 On Nanographene-Reinforced Polyvinylidene Fluoride Composite Matrix for 4D Applications. *Journal of Materials Engineering and Performance*, **2021**, 30, 4860-4871 1.6 5

421 A Comprehensive Review on Composite Materials, Applications and Future Challenges of Friction Welding. *Springer Series in Advanced Manufacturing*, **2021**, 1-31 0.9

420 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, 205-214 7

419 Investigations and mathematical modelling using dimensionless analysis for hardness of SS-316L implants fabricated for batch production through rapid investment casting. *Advances in Materials and Processing Technologies*, **2020**, 1-18 0.8 1

418 Applications of Thermoplastic Polymers in 3D Printing **2020**, 3

417 Fused filament fabrication: A comprehensive review. *Journal of Thermoplastic Composite Materials*, **2020**, 089270572097062 1.9 10

416 ZnO nanoparticle-grafted PLA thermoplastic composites for 3D printing applications: Tuning of thermal, mechanical, morphological and shape memory effect. *Journal of Thermoplastic Composite Materials*, **2020**, 089270572092511 1.9 18

415 Three-dimensional printing of dual thermoplastic materials with different layer combinations: Tensile, flexural, and fractured surface investigations. *Journal of Thermoplastic Composite Materials*, **2020**, 089270572092512 1.9 5

414 Comparison of mechanical and morphological properties of 3-D printed functional prototypes: Multi and hybrid blended thermoplastic matrix. *Journal of Thermoplastic Composite Materials*, **2020**, 089270572092513 1.9 5

413	Polymer matrix composites in 3D printing: A state of art review. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1562-1567	1.4	19
412	Secondary recycled acrylonitrileButadieneStyrene and graphene composite for 3D/4D applications: Rheological, thermal, magnetometric, and mechanical analyses. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572092511	1.9	8
411	On cryogenic milling of primary recycled ABS: Rheological, morphological, and surface properties. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572093262	1.9	5
410	Investigations for Improving Solid-State Weldability of Dissimilar Thermoplastic Composites Through Melt Processing. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 113-121	0.4	
409	On SiC/Al <sub>2</sub> O <sub>3</sub> reinforced HDPE 3D printed rapid tooling. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1483-1487		
408	Investigations for Wear Characteristics of Aluminium-Based Metal Matrix Composite Prepared by Hybrid Reinforcement. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2020</b> , 91, 569	0.9	1
407	Investigations on hardness of investment-casted implants fabricated after vapour smoothing of FDM replicas. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	8
406	Investigations for mechanical, thermal and magnetic properties of polymeric composite matrix for four-dimensional printing applications. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	16
405	Wear properties of rapid tooling prepared by reinforcement of SiC/Al <sub>2</sub> O <sub>3</sub> in HDPE domestic waste. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1468-1471	1.4	0
404	On mechanical and thermal properties of cryo-milled primary recycled ABS. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2020</b> , 45, 1	1	5
403	On mechanical and morphological investigations of tungsten inert gas welded SS 304 thin pipe joints. <i>Measurement and Control</i> , <b>2020</b> , 53, 61-72	1.5	4
402	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> , <b>2020</b> , 089270572090765	1.9	12
401	On multi response optimization and process capability analysis for surface properties of 3D printed functional prototypes of PVC reinforced with PP and HAp. <i>Materials Today: Proceedings</i> , <b>2020</b> , 28, 1115-1122	1.4	3
400	On nano polypyrrole and carbon nano tube reinforced PVDF for 3D printing applications: Rheological, thermal, electrical, mechanical, morphological characterization. <i>Journal of Composite Materials</i> , <b>2020</b> , 54, 4677-4689	2.7	5
399	Numerical simulation on residual stresses of stainless steel SS-304 thin welded pipe. <i>Measurement and Control</i> , <b>2020</b> , 53, 1183-1193	1.5	3
398	Metal spray layered hybrid additive manufacturing of PLA composite structures: Mechanical, thermal and morphological properties. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572093262	1.9	3
397	Investigation of tensile properties of sprayed aluminium based PLA composites fabricated by FDM technology. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1599-1604	1.4	4
396	On mechanical and surface properties of electro-active polymer matrix-based 3D printed functionally graded prototypes. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572090767	1.9	10

395	Processing techniques of polymeric materials and their reinforced composites. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 6, 591-607	0.8	13
394	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> , <b>2020</b> , 1	0.9	6
393	On process capability comparison of hybrid and multi blend PLA matrix composite: Magnetic and surface properties view point. <i>Materials Today: Proceedings</i> , <b>2020</b> , 28, 521-525	1.4	4
392	Effect of extrusion parameters on primary recycled ABS: mechanical, rheological, morphological and thermal properties. <i>Materials Research Express</i> , <b>2020</b> , 7, 015208	1.7	12
391	On 3D printed scaffolds for orthopedic tissue engineering applications. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	3
390	On effect of almond skin powder waste reinforcement in PA6: Rheological, thermal and wear properties. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1546-1551	1.4	7
389	Investigating the optimum parametric setting for MRR of expandable polystyrene machined with 3D printed end mill tool. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 1513-1517	1.4	8
388	Chemical Based Blending of Reinforcement in ABS for 3D Printing Applications <b>2020</b> ,		
387	Dual/Multi Printing of Thermosetting Polymers <b>2020</b> ,		
386	Mechanical and Rheological Investigations of Bakelite Reinforced ABS <b>2020</b> ,		1
385	Integration of FDM and Indirect Rapid Tooling Technique for Fabrication of Low-Cost Hip Implant Replicas for Batch Production: A Case Study. <i>Materials Horizons</i> , <b>2020</b> , 147-166	0.6	
384	PEEK for Transportation of Hazards Chemicals <b>2020</b> ,		
383	Dual/Multi Printing of Thermoplastic Polymers <b>2020</b> ,		
382	Comparison of Thermoplastic and Wax Based Patterns for Investment Casting of Partial Dentures: Techno-Economic and Process Capability Analysis <b>2020</b> ,		1
381	Modified Ultrasonic Machining Process <b>2020</b> , 53-77		
380	Primary and Secondary Recycling of Thermoplastics: A Review <b>2020</b> ,		
379	Dental Crowns by FDM Assisted Vapour Smoothing and Silicon Moulding. <i>Materials Horizons</i> , <b>2020</b> , 231-250		1
378	Smart Thermoplastics for Maintenance and Repair of Heritage Structures <b>2020</b> ,		1



377	Effect of Thermal Cycles on Thermoplastic Polymers <b>2020</b> ,		0
376	Use of Thermosetting Polymers for Smart Civil Structures <b>2020</b> ,		2
375	Thermoplastic Polymer Composites <b>2020</b> ,		1
374	A Frame Work on Crown Fabrication for Veterinary Patients Using 3D Thermoplastic and Metal Printing <b>2020</b> ,		3
373	Application of Thermoplastic Polymers in 4D Printing <b>2020</b> ,		
372	Processing of Conducting Polymers for Sensors Applications: A State of Art Review and Future Applications <b>2020</b> ,		1
371	Segregation and Recycling of Plastic Solid Waste: A Review. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 205-221	0.4	1
370	PLA-HAp-CS-Based Biocompatible Scaffolds Prepared Through Micro-Additive Manufacturing: A Review and Future Applications. <i>Materials Horizons</i> , <b>2020</b> , 209-229	0.6	1
369	Friction Stir Welding of Three-Dimensional Printed Polymer Composites with Semi-consumable Tool. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , <b>2020</b> , 17-29	0.3	1
368	Thermoplastic Containers for Disposal of Radioactive Waste <b>2020</b> ,		1
367	Biocompatible Thermoplastics as Implants/Scaffold <b>2020</b> ,		1
366	Thermosetting Polymers for 4D Printing <b>2020</b> ,		1
365	Performance analysis of vapour finishing apparatus for surface enhancement of FDM parts. <i>Materials Today: Proceedings</i> , <b>2020</b> , 26, 3497-3502	1.4	6
364	Metal matrix composite: a methodological review. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 6, 13-24	0.8	25
363	On flexural and pull out properties of 3D printed PLA based hybrid composite matrix. <i>Materials Research Express</i> , <b>2020</b> , 7, 015330	1.7	17
362	On technological solutions for repair and rehabilitation of heritage sites: a review. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 6, 146-166	0.8	7
361	On compressive and morphological features of 3D printed almond skin powder reinforced PLA matrix. <i>Materials Research Express</i> , <b>2020</b> , 7, 025311	1.7	14
360	Flexural, pull-out, and fractured surface characterization for multi-material 3D printed functionally graded prototype. <i>Journal of Composite Materials</i> , <b>2020</b> , 54, 2087-2099	2.7	12

359	CAD-CAM assisted investment casting for preparation of dental crowns. <i>Materials Today: Proceedings</i> , <b>2020</b> , 26, 223-228	1.4	1
358	On 3D-printed ZnO-reinforced PLA matrix composite: Tensile, thermal, morphological and shape memory characteristics. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572093596	1.9	7
357	On Twin Screw Extrusion of Mn Doped ZnO Nanoparticles-Nylon 6 Thermoplastic Composites for Fused Filament Fabrication <b>2020</b> ,		1
356	Transition Metals Doped ZnO Nanoparticles for 3D Printing: A State of the Art Review and Prospective Applications <b>2020</b> ,		1
355	Investigating the influence of WEDM process parameters in machining of hybrid aluminum composites. <i>Advanced Composites Letters</i> , <b>2020</b> , 29, 2633366X2096313	1.2	12
354	Taguchi S/N and TOPSIS Based Optimization of Fused Deposition Modelling and Vapor Finishing Process for Manufacturing of ABS Plastic Parts. <i>Materials</i> , <b>2020</b> , 13,	3.5	32
353	Thermo-mechanical investigations for the joining of thermoplastic composite structures via friction stir spot welding. <i>Composite Structures</i> , <b>2020</b> , 253, 112772	5.3	4
352	Investigations for partial denture casting by fused deposition modelling-assisted chemical vapour smoothing. <i>Assembly Automation</i> , <b>2020</b> , 40, 745-754	2.1	1
351	Mechanical characterization and comparison of additive manufactured ABS, Polyflex and ABS/Polyflex blended functional prototypes. <i>Rapid Prototyping Journal</i> , <b>2020</b> , 26, 225-237	3.8	6
350	On multi-factor optimisation of Ni-Cr-based partial dentures by centrifugal casting. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-17	0.8	1
349	Friction-stir-spot welding of 3D printed ABS and PA6 composites: flexural, thermal and morphological investigations. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-8	0.8	
348	Polymer- Ceramic composites: A state of art review and future applications. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-14	0.8	1
347	On ZnO nano particle reinforced PVDF composite materials for 3D printing of biomedical sensors. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 60, 268-282	5	15
346	Rapid tooling through micro additive manufacturing with reinforcement of SiC/Al <sub>2</sub> O <sub>3</sub> in LDPE domestic waste. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-10	0.8	1
345	Investigations for surface roughness and dimensional accuracy of biomedical implants prepared by combining fused deposition modelling, vapour smoothing and investment casting. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-20	0.8	2
344	Manufacturing techniques and applications of polymer matrix composites: a brief review. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-11	0.8	9
343	Multi material 3D printing of PLA-PA6/TiO <sub>2</sub> polymeric matrix: Flexural, wear and morphological properties. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572095319	1.9	16
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340	Hybrid fused filament fabrication for manufacturing of Al microfilm reinforced PLA structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	4
339	On effect of chemical-assisted mechanical blending of barium titanate and graphene in PVDF for 3D printing applications. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572094537	1.9	12
338	Solid Polymer Waste Materials for Repairing of Heritage Composite Structure: An Additive Manufacturing Approach <b>2020</b> , 557-562		1
337	Energy Storage Device From Polymeric Waste Based Nano-Composite by 3D Printing <b>2020</b> , 425-432		
336	Development of PLA-HAp-CS-based biocompatible functional prototype: A case study. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 33, 305-323	1.9	24
335	Experimental Investigations for Development of Aluminum MMC With Hybrid Reinforcement and Vacuum Molding <b>2020</b> , 301-311		
334	Investigations for Barium Titanate and Graphene Reinforced PVDF Matrix for 4D Applications <b>2020</b> , 366-375		5
333	Multifactor optimization of FDM process parameters for development of rapid tooling using SiC/Al <sub>2</sub> O <sub>3</sub> -reinforced LDPE filament. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 33, 581-598	1.9	9
332	A Comprehensive Study for 3D Printing of Rapid Tooling From Reinforced Waste Thermoplastics <b>2020</b> , 114-144		3
331	Application of Nano Porous Materials for Energy Conservation and Storage <b>2020</b> , 42-50		2
330	Preparation of Partial Denture With Nano HAp-PLA Composite Under Cryogenic Grinding Environment Using 3D Printing <b>2020</b> , 517-522		3
329	Biocompatible Thermoplastic Composite Blended With HAp and CS for 3D Printing <b>2020</b> , 379-388		3
328	Development of HAp Reinforced Biodegradable Porous Structure Through Polymer Deposition Technology for Tissue Engineering Applications <b>2020</b> , 196-215		
327	Experimental Investigations for Development of Conductive Ceramic Composites with Microwave Sintering and Their Electric Discharge Machining <b>2020</b> , 312-321		
326	Joining of 3D Printed Dissimilar Thermoplastics With Consumable Tool Through Friction Stir Spot Welding: A Case Study <b>2020</b> , 91-96		
325	Joining of 3D Printed Dissimilar Thermoplastics With Nonconsumable Tool Through Friction Stir Welding: A Case Study <b>2020</b> , 109-113		
324	Nickel Chromium Based Partial Denture Preparation: Conventional vs Additive Manufacturing Techniques <b>2020</b> , 500-509		3

323	Application of Nano Porous Materials for Energy Conversion Process <b>2020</b> , 51-55		1
322	Joining of 3D Printed Dissimilar Thermoplastics With Friction Welding: A Case Study <b>2020</b> , 97-108		1
321	Prospect of Recycling of Plastic Product to Minimize Environmental Pollution <b>2020</b> , 695-703		1
320	Walking Model of Jansen Mechanism-Based Quadruped Robot and Application to Obstacle Avoidance. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 653-664	2.5	4
319	Vapor smoothing process for surface finishing of FDM replicas. <i>Materials Today: Proceedings</i> , <b>2020</b> , 26, 173-179	1.4	13
318	Recyclability of Packaging Materials for Domestic Applications <b>2020</b> , 144-148		0
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316	Thermal and structural modelling of arc welding processes: A literature review. <i>Measurement and Control</i> , <b>2019</b> , 52, 955-969	1.5	14
315	Investigations for machinability of primary recycled thermoplastics with secondary recycled rapid tooling. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2019</b> , 44, 1	1	3
314	Thermomechanical investigations of PEKK-HAp-CS composites. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2019</b> , 233, 1196-1203	1.7	2
313	Multifactor Optimization for Development of Biocompatible and Biodegradable Feed Stock Filament of Fused Deposition Modeling. <i>Journal of the Institution of Engineers (India): Series E</i> , <b>2019</b> , 100, 205-216	0.6	3
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311	Investigations for magnetic properties of PLA-PVC-Fe <sub>3</sub> O <sub>4</sub> -wood dust blend for self-assembly applications. <i>Journal of Thermoplastic Composite Materials</i> , <b>2019</b> , 089270571985777	1.9	26
310	Investigations on joining of orthopaedic scaffold with rapid tooling. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2019</b> , 233, 754-760	1.7	7
309	3D printed functional prototypes for electrochemical energy storage. <i>International Journal of Materials Engineering Innovation</i> , <b>2019</b> , 10, 152	0.9	4
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306	Partial dentures by centrifugal casting assisted by additive manufacturing. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2019</b> , 44, 1	1	8

305	Mechanical and Experimental Study on the use of Sustainable Materials for Additive Manufacturing. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 473, 012010	0.4	1
304	Development and Applications of Composites of Polymeric and Biodegradable Materials Since 1990 <b>2019</b> ,		
303	Green Design of Novel Metal Matrix Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 473, 012008	0.4	
302	Material Processing of PLA-HAp-CS-Based Thermoplastic Composite Through Fused Deposition Modeling for Biomedical Applications <b>2019</b> , 123-136		4
301	Effect of Process Parameters of Fused Deposition Modeling and Vapour Smoothing on Surface Properties of ABS Replicas for Biomedical Applications <b>2019</b> , 227-249		5
300	On the additive manufacturing of an energy storage device from recycled material. <i>Composites Part B: Engineering</i> , <b>2019</b> , 156, 259-265	10	34
299	Recycled HDPE reinforced Al <sub>2</sub> O <sub>3</sub> and SiC three dimensional printed patterns for sandwich composite material. <i>Engineering Research Express</i> , <b>2019</b> , 1, 015007	0.9	4
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296	Investigations for tensile, compressive and morphological properties of 3D printed functional prototypes of PLA-PEKK-HAp-CS. <i>Journal of Thermoplastic Composite Materials</i> , <b>2019</b> , 089270571987059 <sup>1.9</sup>		15
295	Investigations on 3D printed thermosetting and ceramic-reinforced recycled thermoplastic-based functional prototypes. <i>Journal of Thermoplastic Composite Materials</i> , <b>2019</b> , 089270571986462	1.9	13
294	Investigations for tool life of 3D printed HDPE and LDPE composite based rapid tooling for thermoplastics machining applications. <i>Engineering Research Express</i> , <b>2019</b> , 1, 015003	0.9	5
293	On secondary recycling of ZrO <sub>2</sub> -reinforced HDPE filament prepared from domestic waste for possible 3-D printing of bearings. <i>Journal of Thermoplastic Composite Materials</i> , <b>2019</b> , 089270571986462 <sup>1.9</sup>		7
292	Study on barium titanate and graphene reinforced PVDF matrix for 4D applications. <i>Journal of Thermoplastic Composite Materials</i> , <b>2019</b> , 089270571986500	1.9	18
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286	Development of ABS-Graphene Blended Feedstock Filament for FDM Process <b>2019</b> , 279-297	3
285	Polymermatrix composites for rapid tooling in clinical dentistry <b>2019</b> , 431-462	
284	Fabrication of PLA-HAp-CS Based Biocompatible and Biodegradable Feedstock Filament Using Twin Screw Extrusion <b>2019</b> , 325-345	10
283	Development of Rapid Tooling Using Fused Deposition Modeling <b>2019</b> , 251-277	3
282	PLA Composite Matrix as Functional Prototypes for Four Dimensional Applications <b>2019</b> , 1091-1100	8
281	Object Detection and Gesture Control of Four-Wheel Mobile Robot <b>2019</b> ,	1
280	CAD-CAM Assisted Design and Preparation of Biocompatible Sensors and Transducers with Variable Microstructure. <i>Key Engineering Materials</i> , <b>2019</b> , 826, 73-80	0.4
279	Processing of Melt Flow Compatible Thermoplastic Composites for Solid State Welding Applications. <i>Materials Today: Proceedings</i> , <b>2019</b> , 18, 3167-3173	1.4 2
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276	Graphene Reinforced Composites as Sensing Elements. <i>Key Engineering Materials</i> , <b>2019</b> , 826, 33-44	0.4
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260	Investigations for Enhancing Wear Properties of Rapid Tooling by Reinforcement of Nanoscale Fillers for Grinding Applications. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2018</b> , 6,	1.3	10
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246	Investigations for Rapid Tooling Prepared With Waste Polymer-Based Hybrid Filament <b>2018</b> , 385-402		1
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242	Experimental Investigations for Development of Hybrid Feed Stock Filament of Fused Deposition Modeling <b>2018</b> ,		2
241	Investigating the Polymeric Composites for Online Repair and Maintenance. <i>Materials Horizons</i> , <b>2018</b> , 165-179	0.6	
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214	Investigations for modelling hardness of biomedical implant during replication of FDM-based patterns by vacuum moulding. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2017</b> , 42, 327-333 <sup>1</sup>		4
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201	Friction Welding of Dissimilar Plastic-Based Material by Metal Powder Reinforcement <b>2017</b> ,		3
200	Polymer Twin Screw Extrusion With Filler Powder Reinforcement <b>2017</b> , 691-705		2
199	Four-Dimensional Printing for Clinical Dentistry <b>2017</b> ,		5
198	Development of Low-Cost Graphene-Polymer Blended In-House Filament for Fused Deposition Modeling <b>2017</b> , 1081-1090		13

197	Effect of Cryogenic Treatment on Ultrasonic Machining of Titanium and Its Alloys: A Review <b>2017</b> ,		2
196	Integration of Fused Deposition Modeling and Vapor Smoothing for Biomedical Applications <b>2017</b> ,		2
195	Development of Metal Matrix Composite-Based Dental Implants by Stir Casting in Silicon Molding-Based Investment Shells <b>2017</b> ,		1
194	Investment Casting (Disposable Mold) <b>2017</b> ,		
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192	Three-Dimensional Printing <b>2017</b> ,		4
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181	Recycling of plastic solid waste: A state of art review and future applications. <i>Composites Part B: Engineering</i> , <b>2017</b> , 115, 409-422	10	484
180	Polymer Waste as Fused Deposition Modeling Feed Stock Filament for Industrial Applications <b>2017</b> ,		18

179	Investigations for Thermal and Electrical Conductivity of ABS-Graphene Blended Prototypes. <i>Materials</i> , <b>2017</b> , 10,	3.5	52
178	Effect of Cryogenic Treatment on Electric Discharge Machining of Titanium and Its Alloys <b>2017</b> ,		1
177	Advances in Fused Deposition Modeling <b>2017</b> ,		7
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175	Waste management by recycling of polymers with reinforcement of metal powder. <i>Composites Part B: Engineering</i> , <b>2016</b> , 105, 23-29	10	52
174	Experimental investigations for mechanical and metallurgical properties of friction stir welded recycled dissimilar polymer materials with metal powder reinforcement. <i>Composites Part B: Engineering</i> , <b>2016</b> , 103, 90-97	10	12
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47	Experimental investigations on machining characteristics of titanium in ultrasonic impact grinding. <i>International Journal of Computational Materials Science and Surface Engineering</i> , <b>2010</b> , 3, 24	0.4	2
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44	Effect of moulding sand on statistically controlled hybrid rapid casting solution for zinc alloys. <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 1689-1695	1.6	10
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41	Investigations for statistically controlled rapid casting solution of low brass alloys using three dimensional printing. <i>International Journal of Rapid Manufacturing</i> , <b>2009</b> , 1, 208	0.9	19
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39	Mathematical modeling of tool wear rate in ultrasonic machining of titanium. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2009</b> , 43, 573-580	3.2	32
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15	On shear resistance of almond skin reinforced PLA composite matrix-based scaffold using cancellous screw. <i>Advances in Materials and Processing Technologies</i> ,1-24	0.8	2
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