Chander Prakash

List of Publications by Year
in descending order

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168	5,165	76326	128289
papers	citations	40 h-index	60 g-index

174	174	174	2190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EXPERIMENTAL INVESTIGATION AND PARAMETRIC OPTIMIZATION OF NEUROSURGICAL BONE GRINDING UNDER BIO-MIMIC ENVIRONMENT. Surface Review and Letters, 2023, 30, .	1.1	7
2	Application of coolants during tool-based machining â€“ A review. Ain Shams Engineering Journal, 2023, 14, 101830.	6.1	34
3	HA-based coating by plasma spray techniques on titanium alloy for orthopedic applications. Materials Today: Proceedings, 2022, 50, 612-628.	1.8	35
4	Comparison of Ni-Cr based partial dentures prepared by thermoplastic and wax based investment casting: Mechanical, morphological and in-vitro analysis. Materials Today: Proceedings, 2022, 48, 938-945.	1.8	2
5	Investigation on surface roughness and hardness of Î²-Ti alloy by ball burnishing assisted electrical discharge cladding for bio-medical applications. Materials Today: Proceedings, 2022, 50, 848-854.	1.8	7
6	Modelling and optimization of tractor ride conditions under water tanker operation. Theoretical Issues in Ergonomics Science, 2022, 23, 453-474.	1.8	5
7	Characterization of Friction Stir-Welded Polylactic Acid/Aluminum Composite Primed through Fused Filament Fabrication. Journal of Materials Engineering and Performance, 2022, 31, 2391-2409.	2.5	44
8	Optimization and significance of fabrication parameters on the mechanical properties of 3D printed Chitosan/PLA scaffold. Materials Today: Proceedings, 2022, 50, 2018-2025.	1.8	17
9	Tribological behavior of zirconia-toughened alumina (ZTA) against Ti6Al4V under different bio-lubricants in hip prosthesis using experimental and finite element concepts. Materials Letters, 2022, 307, 131107.	2.6	3
10	Understanding the Micro-Mechanical Behaviour of Recast Layer Formed during WEDM of Titanium Alloy. Metals, 2022, 12, 188.	2.3	9
11	Advanced cooling-lubrication technologies in metal machining. , 2022, , 67-92.		8
12	A Low-Cost Multi-Sensor Data Acquisition System for Fault Detection in Fused Deposition Modelling. Sensors, 2022, 22, 517.	3.8	29
13	Sustainability in drilling of aluminum alloy. Cleaner Materials, 2022, 3, 100048.	5.1	6
14	Corrigendum to â€œprocessing of Ti50Nb50â^'xHAx composites by rapid microwave sintering technique for biomedical applicationsâ€•[J Mater Res Technol 9 (1) (2020) 242â€“252]. Journal of Materials Research and Technology, 2022, 18, 5455.	5.8	0
15	Machine Learning for Prediction of Heat Pipe Effectiveness. Energies, 2022, 15, 3276.	3.1	12
16	Machining parameter optimization and experimental investigations of nano-graphene mixed electrical discharge machining of nitinol shape memory alloy. Journal of Materials Research and Technology, 2022, 19, 653-668.	5.8	41
17	Post-processing of additively manufactured microstructures using alternating-magnetic field-assisted finishing. Journal of Materials Research and Technology, 2022, 19, 1922-1933.	5.8	15
18	Life Cycle Saving Analysis of an Earth-Coupled Building without and with Roof Evaporative Cooling for Energy Efficient Potato Storage Application. Energies, 2022, 15, 4076.	3.1	6

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19	Tribo-mechanical behaviour of aluminium alloy (AlSi10Mg) reinforced with palmyra shell ash and silicon carbide particles. Metallurgical Research and Technology, 2022, 119, 315.	0.7	3
20	Real-Time Structural Health Monitoring and Damage Identification Using Frequency Response Functions along with Finite Element Model Updating Technique. Sensors, 2022, 22, 4546.	3.8	13
21	A critical review on damage modeling and failure analysis of pin joints in fiber reinforced composite laminates. Polymers and Polymer Composites, 2022, 30, 096739112210997.	1.9	2
22	Al-Mg-MoS2 Reinforced Metal Matrix Composites: Machinability Characteristics. Materials, 2022, 15, 4548.	2.9	21
23	Effect of Al2O3 Nanoparticles on Performance and Emission Characteristics of Diesel Engine Fuelled with Dieselâ€“Neem Biodiesel Blends. Sustainability, 2022, 14, 7913.	3.2	27
24	Material recovery and recycling of waste tyres-A review. Cleaner Materials, 2022, 5, 100115.	5.1	28
25	Effects of Various Pseudomonas Bacteria Concentrations on the Strength and Durability Characteristics of Concrete. Buildings, 2022, 12, 993.	3.1	10
26	Determination of Optimum Machining Parameters for Face Milling Process of Ti6A14V Metal Matrix Composite. Materials, 2022, 15, 4765.	2.9	39
27	Manufacturing Techniques for Mg-Based Metal Matrix Composite with Different Reinforcements. Crystals, 2022, 12, 945.	2.2	23
28	Structural optimization of a rotary joint by hybrid method of FEM, neural-fuzzy and water cycleâ€“moth flame algorithm for robotics and automation manufacturing. Robotics and Autonomous Systems, 2022, 156, 104199.	5.1	3
29	Precision machining of biopolymers: A brief review of the literature and case study on diamond turning. Journal of Thermoplastic Composite Materials, 2021, 34, 557-578.	4.2	6
30	Comparative job production based life cycle assessment of conventional and additive manufacturing assisted investment casting of aluminium: A case study. Journal of Cleaner Production, 2021, 289, 125164.	9.3	31
31	Mechanical Performance of 2D Nanomaterials Based Advanced Composites. Materials Horizons, 2021, , 247-257.	0.6	0
32	Biomechanical Properties of Orthopedic and Dental Implants. , 2021, , 506-518.		1
33	Fused filament printing of specialized biomedical devices: a state-of-the art review of technological feasibilities with PEEK. Rapid Prototyping Journal, 2021, 27, 592-616.	3.2	20
34	A Comparative Analysis of Laser Additive Manufacturing of High Layer Thickness Pure Ti and Inconel 718 Alloy Materials Using Finite Element Method. Materials, 2021, 14, 876.	2.9	20
35	Comparison of microstructure and mechanical performance of laser and electron beam welded Ti6Al4V alloy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	5
36	Investigating the Efficacy of Adhesive Tape for Drilling Carbon Fibre Reinforced Polymers. Materials, 2021, 14, 1699.	2.9	6

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37	Mechanical Reliability and In Vitro Bioactivity of 3D-Printed Porous Polylactic Acid-Hydroxyapatite Scaffold. Journal of Materials Engineering and Performance, 2021, 30, 4946-4956.	2.5	64
38	Functional grading of surfaces through hybrid ultrasonic, abrasive water jet, and electric discharge machining processing. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	13
39	Experimental investigation into nano-finishing of Î²-TNTZ alloy using magnetorheological fluid magnetic abrasive finishing process for orthopedic applications. Journal of Materials Research and Technology, 2021, 11, 600-617.	5.8	39
40	Vibration Exposure and Transmissibility on Dentistâ€™s Anatomy: A Study of Micro Motors and Air-Turbines. International Journal of Environmental Research and Public Health, 2021, 18, 4084.	2.6	17
41	Multiple-Criteria Decision-Making and Sensitivity Analysis for Selection of Materials for Knee Implant Femoral Component. Materials, 2021, 14, 2084.	2.9	75
42	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.	2.5	8
43	Influence of tack operation on metallographic and angular distortion in electron beam welding of Ti-6l-4V alloy. Measurement: Journal of the International Measurement Confederation, 2021, 175, 109160.	5.0	7
44	Revealing the WEDM Process Parameters for the Machining of Pure and Heat-Treated Titanium (Ti-6Al-4V) Alloy. Materials, 2021, 14, 2292.	2.9	53
45	Experimental analysis of wear and multi-shape burr loading during neurosurgical bone grinding. Journal of Materials Research and Technology, 2021, 12, 15-28.	5.8	16
46	Environmental, Economical and Technological Analysis of MQL-Assisted Machining of Al-Mg-Zr Alloy Using PCD Tool. Sustainability, 2021, 13, 7321.	3.2	26
47	Drilling of titanium alloy (Ti6Al4V) â€“ a review. Machining Science and Technology, 2021, 25, 637-702.	2.5	26
48	Experimental investigation and optimization of surface roughness of Î²-Phase titanium alloy by ball burnishing assisted electrical discharge cladding for implant applications. Materials Today: Proceedings, 2021, 48, 975-975.	1.8	4
49	Cloud Manufacturing, Internet of Things-Assisted Manufacturing and 3D Printing Technology: Reliable Tools for Sustainable Construction. Sustainability, 2021, 13, 7327.	3.2	50
50	Evaluation and Analysis of Whole-Body Vibration Exposure during Soil Tillage Operation. Safety, 2021, 7, 61.	1.7	9
51	Grey based multi-objective optimization of machining performance in boring of aluminium alloy 6061 through piezoelectric shunt damping. Materials Today: Proceedings, 2021, 50, 1043-1043.	1.8	2
52	Recast Layer Formation during Wire Electrical Discharge Machining of Titanium (Ti-Al6-V4) Alloy. Journal of Materials Engineering and Performance, 2021, 30, 8926-8935.	2.5	21
53	Synthesis of functionalized TiO2-loaded HAp-coating by ball-burnishing assisted electric discharge cladding process. Materials Letters, 2021, 301, 130282.	2.6	11
54	Use of duck feather waste as a reinforcement medium in polymer composites. Cleaner Materials, 2021, 1, 100014.	5.1	1

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55	Micro-mechanical characterization of superficial layer synthesized by electric discharge machining process. Materials Letters, 2021, 305, 130769.	2.6	11
56	On investigating the soda-lime shot blasting of AZ31 alloy: Effects on surface roughness, material removal rate, corrosion resistance, and bioactivity. Journal of Magnesium and Alloys, 2021, 9, 1272-1272.	11.9	14
57	Analysis of Sensitization in Austenitic Stainless Steel-Welded Joint. Lecture Notes in Mechanical Engineering, 2021, , 13-23.	0.4	40
58	Experimental Investigation and Optimization of Electric Discharge Machining Process Parameters Using Grey-Fuzzy-Based Hybrid Techniques. Materials, 2021, 14, 5820.	2.9	17
59	Surface Roughness Analysis of H13 Steel during Electrical Discharge Machining Process Using Cuâ€“TiC Sintered Electrode. Materials, 2021, 14, 5943.	2.9	8
60	Investigation of Functionally Graded Adherents on Failure of Socket Joint of FRP Composite Tubes. Materials, 2021, 14, 6365.	2.9	5
61	Infrastructure, mobility and safety 4.0: Modernization in road transportation. Technology in Society, 2021, 67, 101791.	9.4	19
62	In-vitro tribological study and submodeling finite element technique in analyzing wear of zirconia toughened alumina against alumina with bio-lubricants for hip implants. Medical Engineering and Physics, 2021, 98, 83-90.	1.7	5
63	Assessment of the Benefits of Information and Communication Technologies (ICT) Adoption on Downstream Supply Chain Performance of the Retail Industry. Logistics, 2021, 5, 80.	4.3	5
64	High-Temperature Corrosion Performance of FeAl-Based Alloys Containing Carbon in Molten Salt. Metals, 2021, 11, 2040.	2.3	0
65	Subtractive Versus Hybrid Manufacturing. , 2020, , 474-502.		3
66	On Friction-Stir Welding of 3D Printed Thermoplastics. Materials Forming, Machining and Tribology, 2020, , 75-91.	1.1	12
67	Fabrication of aluminium carbon nano tube silicon carbide particles based hybrid nano-composite by spark plasma sintering. Materials Today: Proceedings, 2020, 21, 1637-1642.	1.8	28
68	Processing of Ti50Nb50â^'xHAx composites by rapid microwave sintering technique for biomedical applications. Journal of Materials Research and Technology, 2020, 9, 242-252.	5.8	56
69	On the characterization of functionally graded biomaterial primed through a novel plaster mold casting process. Materials Science and Engineering C, 2020, 110, 110654.	7.3	16
70	Developments of non-conventional drilling methodsâ€”a review. International Journal of Advanced Manufacturing Technology, 2020, 106, 2133-2166.	3.0	23
71	Probing molecular interactions between Choline Acetate Ionic Liquid and Alcohols: A comparable thermophysical study of Choline Acetate Ionic Liquid with change in solvent polarities. Journal of Molecular Liquids, 2020, 298, 112061.	4.9	10
72	3D printing in tissue engineering: a state of the art review of technologies and biomaterials. Rapid Prototyping Journal, 2020, 26, 1313-1334.	3.2	67

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73	Development of hybrid Gr/SiC reinforced AMCs through friction stir processing. Materials Today: Proceedings, 2020, 50, 539-539.	1.8	7
74	Investigating the influence of WEDM process parameters in machining of hybrid aluminum composites. Advanced Composites Letters, 2020, 29, 2633366X2096313.	1.3	47
75	Magneto-Rheological Fluid Assisted Abrasive Nanofinishing of Î²-Phase Ti-Nb-Ta-Zr Alloy: Parametric Appraisal and Corrosion Analysis. Materials, 2020, 13, 5156.	2.9	18
76	Effect of cryogenic treatment on the microstructure, mechanical properties and finishability of Î²-TNTZ alloy for orthopedic applications. Materials Letters, 2020, 278, 128461.	2.6	18
77	Multi-objective optimization of drilling parameters for orthopaedic implants. Measurement and Control, 2020, 53, 1902-1910.	1.8	44
78	Plasma Spray Deposition of HA-TiO2 on Î²-phase Ti-35Nb-7Ta-5Zr Alloy for Hip Stem: Characterization of Bio-mechanical Properties, Wettability, and Wear Resistance. Journal of Bionic Engineering, 2020, 17, 1029-1044.	5.0	57
79	Study on Technological Effects of a Precise Grooving of AlSi13MgCuNi Alloy with a Novel WCCo/PCD (DDCC) Inserts. Materials, 2020, 13, 2467.	2.9	12
80	Characterization of indigenously coated biodegradable magnesium alloy primed through novel additive manufacturing assisted investment casting. Materials Letters, 2020, 275, 128137.	2.6	14
81	Development and characterization of cubic boron nitride based surface composite on D2 tool steel using thermal diffusion. Materials Today: Proceedings, 2020, 26, 2099-2102.	1.8	2
82	Three-dimensional printing in the fight against novel virus COVID-19: Technology helping society during an infectious disease pandemic. Technology in Society, 2020, 62, 101305.	9.4	76
83	Processing and characterization of Al5086-Gr-SiC hybrid surface composite using friction stir technique. Materials Today: Proceedings, 2020, 28, 1350-1354.	1.8	19
84	Application of hybrid nature-inspired algorithm: Single and bi-objective constrained optimization of magnetic abrasive finishing process parameters. Journal of Materials Research and Technology, 2020, 9, 7961-7974.	5.8	34
85	Burr formation and its treatmentsâ€"a review. International Journal of Advanced Manufacturing Technology, 2020, 107, 2189-2210.	3.0	57
86	On the mechanical characteristics of friction stir welded dissimilar polymers: statistical analysis of the processing parameters and morphological investigations of the weld joint. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	16
87	Surface Characteristics of Machined Polystyrene with 3D Printed Thermoplastic Tool. Materials, 2020, 13, 2729.	2.9	64
88	3D printed biodegradable composites: An insight into mechanical properties of PLA/chitosan scaffold. Polymer Testing, 2020, 89, 106722.	4.8	84
89	Characterization of threeâ€dimensional printed thermalâ€stimulus polylactic acidâ€hydroxyapatiteâ€based shape memory scaffolds. Polymer Composites, 2020, 41, 3871-3891.	4.6	64
90	Deposition of HA-TiO2 by plasma spray on Î²-phase Ti-35Nb-7Ta-5Zr alloy for hip stem: Characterization, mechanical properties, corrosion, and in-vitro bioactivity. Surface and Coatings Technology, 2020, 398, 126072.	4.8	70

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91	Measurement and analysis of wind energy potential using fuzzy based hybrid MADM approach. Energy Reports, 2020, 6, 228-237.	5.1	60
92	Microwave sintering of porous Tiâ€“Nb-HA composite with high strength and enhanced bioactivity for implant applications. Journal of Alloys and Compounds, 2020, 824, 153774.	5.5	61
93	Fabrication of low elastic modulus Ti50Nb30HA20 alloy by rapid microwave sintering technique for biomedical applications. Materials Today: Proceedings, 2020, 21, 1713-1716.	1.8	17
94	Machining parameter optimization in shear thickening polishing of gear surfaces. Journal of Materials Research and Technology, 2020, 9, 5112-5126.	5.8	71
95	Investigating the optimum parametric setting for MRR of expandable polystyrene machined with 3D printed end mill tool. Materials Today: Proceedings, 2020, 33, 1513-1517.	1.8	11
96	Current status and future directions of fused filament fabrication. Journal of Manufacturing Processes, 2020, 55, 288-306.	5.9	207
97	3D printed biodegradable functional temperature-stimuli shape memory polymer for customized scaffoldings. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 108, 103781.	3.1	87
98	Microstructural and Mechanical Properties of AA6061 Aluminium Alloy Reinforced with Nano-SiC Particles Using FSP. Lecture Notes in Mechanical Engineering, 2020, , 195-204.	0.4	4
99	Biomaterials and Fabrication Methods of Scaffolds for Tissue Engineering Applications. Materials Horizons, 2020, , 167-186.	0.6	6
100	Three-Dimensional Printing Assisted Investment Casting Processes for Intricate Products. , 2020, , .		1
101	Three-Dimensional Printing of Porous Polylactic-Acid Scaffolds for Tissue Engineering. , 2020, , .		1
102	Methods and variables in Electrical discharge machining of titanium alloy â€“ A review. Heliyon, 2020, 6, e05554.	3.2	43
103	Experimental investigation and parametric optimization of HA-TiO2 plasma spray coating on Î²-phase titanium alloy. Materials Today: Proceedings, 2020, 28, 1340-1344.	1.8	5
104	3D Bioprinting in Pharmaceuticals, Medicine, and Tissue Engineering Applications. , 2020, , 147-161.		12
105	Effect of Process Parameters on Cutting Forces and Osteonecrosis for Orthopedic Bone Drilling Applications. , 2020, , 93-108.		7
106	Fabrication and Machining Methods of Composites for Aerospace Applications. , 2020, , 109-124.		6
107	Recent Advancements in Customized Investment Castings Through Additive Manufacturing. , 2020, , 296-319.		1
108	Effect of Intercritical Heat Treatment and Volume Fraction on the Morphological Properties, Mechanical Properties, and Work Hardening Behaviour of Dual-Phase Steel. Lecture Notes in Mechanical Engineering, 2020, , 393-405.	0.4	0

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109	Nanodiamonds and Other Organic Nanoparticles: Synthesis and Surface Modifications. , 2020, , 135-160.		1
110	Functionally Graded Thermoplastic Composites. , 2020, , .		0
111	Influence of the Microstructural and Mechanical Properties of Reinforced Graphene in Magnesium Matrix Fabricated by Friction Stir Processing. Lecture Notes in Mechanical Engineering, 2020, , 235-247.	0.4	1
112	Synthesis of cubic boron nitride diffused-D2 steel surface composite by thermo-chemical diffusion process to enhance the wear resistance. Materials Research Express, 2020, 7, 096503.	1.6	1
113	Investigation on micro-residual stress distribution near hole using nanoindentation: Effect of drilling speed. Measurement and Control, 2019, 52, 1252-1263.	1.8	12
114	Deformation and strengthening of SiC reinforced Al-MMCs during in-situ micro-pillar compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138141.	5.6	79
115	Metaheuristic approach in machinability evaluation of silicon carbide particle/glass fiberâ€“reinforced polymer matrix composites during electrochemical discharge machining process. Measurement and Control, 2019, 52, 1167-1176.	1.8	23
116	Fabrication and optimization of hybrid AA-6082-T6 alloy/8%Al₂O₃(Alumina)/2%Grp metal matrix composites using novel Box-Behnken methodology processed by wire-sinking electric discharge machining. Materials Research Express, 2019, 6, 116594.	1.6	18
117	Investigation of machining characteristics of hard-to-machine Ti-6Al-4V-ELI alloy for biomedical applications. Journal of Materials Research and Technology, 2019, 8, 4849-4862.	5.8	76
118	Plasma treatment of polyether-ether-ketone: A means of obtaining desirable biomedical characteristics. European Polymer Journal, 2019, 118, 561-577.	5.4	25
119	Synthesis and Characterization of Bioceramic Oxide Coating on Zr-Ti-Cu-Ni-Be BMG by Electro Discharge Process. Lecture Notes in Mechanical Engineering, 2019, , 518-531.	0.4	5
120	Optimizing dimensional accuracy of titanium alloy features produced by wire electrical discharge machining. Materials and Manufacturing Processes, 2019, 34, 1083-1090.	4.7	74
121	Dimensionless Analysis for Investigating the Quality Characteristics of Aluminium Matrix Composites Prepared through Fused Deposition Modelling Assisted Investment Casting. Materials, 2019, 12, 1907.	2.9	32
122	Understanding the wire electrical discharge machining of Ti6Al4V alloy. Heliyon, 2019, 5, e01473.	3.2	85
123	Investigation of Alloy Composition and Sintering Parameters on the Corrosion Resistance and Microhardness of 316L Stainless Steel Alloy. Lecture Notes in Mechanical Engineering, 2019, , 532-541.	0.4	8
124	Current Trends in Biomaterials and Bio-manufacturing. , 2019, , 1-34.		30
125	Micro-machining Performance Assessment of Ti-Based Biomedical Alloy: A Finite Element Case Study. , 2019, , 157-183.		6
126	Surface Modification of Ti-6Al-4V Alloy by Electrical Discharge Coating Process Using Partially Sintered Ti-Nb Electrode. Materials, 2019, 12, 1006.	2.9	97

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127	3D printing of polyether-ether-ketone for biomedical applications. European Polymer Journal, 2019, 114, 234-248.	5.4	138
128	Experimental study on polishing process of cylindrical roller bearings. Measurement and Control, 2019, 52, 1272-1281.	1.8	14
129	Bio-inspired low elastic biodegradable Mg-Zn-Mn-Si-HA alloy fabricated by spark plasma sintering. Materials and Manufacturing Processes, 2019, 34, 357-368.	4.7	69
130	Multi-objective parametric appraisal of pulsed current gas tungsten arc welding process by using hybrid optimization algorithms. International Journal of Advanced Manufacturing Technology, 2019, 101, 1107-1123.	3.0	58
131	Bioprinting in ophthalmology: current advances and future pathways. Rapid Prototyping Journal, 2019, 25, 496-514.	3.2	43
132	Optimization and reliability analysis to improve surface quality and mechanical characteristics of heat-treated fused filament fabricated parts. International Journal of Advanced Manufacturing Technology, 2019, 102, 1521-1536.	3.0	87
133	Mechanical feasibility of ABS/HIPS-based multi-material structures primed by low-cost polymer printer. Rapid Prototyping Journal, 2019, 25, 152-161.	3.2	49
134	Fabrication and In Vitro Corrosion Characterization of 316L Stainless Steel for Medical Application. Materials Horizons, 2019, , 215-226.	0.6	3
135	Biomechanical Properties of Orthopedic and Dental Implants. Advances in Mechatronics and Mechanical Engineering, 2019, , 1-13.	1.0	10
136	Spark Plasma Sintering of Mg-Zn-Mn-Si-HA Alloy for Bone Fixation Devices. Advances in Mechatronics and Mechanical Engineering, 2019, , 282-295.	1.0	4
137	Recent Advancements in Customized Investment Castings Through Additive Manufacturing. Advances in Mechatronics and Mechanical Engineering, 2019, , 24-48.	1.0	0
138	Synthesis, characterization, corrosion and bioactivity investigation of nano-HA coating deposited on biodegradable Mg-Zn-Mn alloy. Surface and Coatings Technology, 2018, 346, 9-18.	4.8	86
139	Nano-mechanical Characterization of Mg-Zn-Mn-Si Alloy Fabricated by Spark Plasma Sintering for Biomedical Applications. Materials Today: Proceedings, 2018, 5, 27742-27748.	1.8	6
140	Fabrication and Characterization of a New Range of Î²-type Ti-Nb-Ta-Zr-xHaP (x=0, 10) Alloy by Mechanical Alloying and Spark Plasma Sintering for Biomedical Applications. Materials Today: Proceedings, 2018, 5, 27749-27756.	1.8	14
141	Physical-mechanical characterization of biodegradable Mg-3Si-HA composites. PSU Research Review, 2018, 2, 152-174.	2.4	14
142	Evaluating Hole Quality in Drilling of Al 6061 Alloys. Materials, 2018, 11, 2443.	2.9	80
143	Electrochemical Discharge Drilling of Polymer Matrix Composites. Materials Horizons, 2018, , 223-243.	0.6	6
144	Multi-objective particle swarm optimization of EDM parameters to deposit HA-coating on biodegradable Mg-alloy. Vacuum, 2018, 158, 180-190.	3.5	83

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145	Multi-objective Optimization of MWCNT Mixed Electric Discharge Machining of Alâ€“30SiCp MMC Using Particle Swarm Optimization. Materials Horizons, 2018, , 145-164.	0.6	17
146	Machinability Investigations of Inconel-800 Super Alloy under Sustainable Cooling Conditions. Materials, 2018, 11, 2088.	2.9	72
147	Synthesis, Characterization, Corrosion Resistance and In-Vitro Bioactivity Behavior of Biodegradable Mgâ€“Znâ€“Mnâ€“(Siâ€“HA) Composite for Orthopaedic Applications. Materials, 2018, 11, 1602.	2.9	73
148	Synthesis and characterization of Mg-Zn-Mn-HA composite by spark plasma sintering process for orthopedic applications. Vacuum, 2018, 155, 578-584.	3.5	60
149	Experimental investigations in powder mixed electric discharge machining of Tiâ€“35Nbâ€“7Taâ€“5ZrÎ²-titanium alloy. Materials and Manufacturing Processes, 2017, 32, 274-285.	4.7	176
150	On the Influence of Nanoporous Layer Fabricated by PMEDM on Î² -Ti Implant: Biological and Computational Evaluation of Bone- Implant Interface. Materials Today: Proceedings, 2017, 4, 2298-2307.	1.8	23
151	Fabrication and characterization of Ti-Nb-HA alloy by mechanical alloying and spark plasma sintering for hard tissue replacements. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012051.	0.6	12
152	Fabrication of Biodegradable Low Elastic Porous Mg-Zn-Mn-HA Alloy by Spark Plasma Sintering for Orthopaedic Applications. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012050.	0.6	6
153	Surface modification of Î²-phase Ti implant by hydroaxyapatite mixed electric discharge machining to enhance the corrosion resistance and in-vitro bioactivity. Surface and Coatings Technology, 2017, 326, 134-145.	4.8	115
154	Potential of Silicon Powder-Mixed Electro Spark Alloying for Surface Modification of Î² -Phase Titanium Alloy for Orthopedic Applications. Materials Today: Proceedings, 2017, 4, 10080-10083.	1.8	18
155	A Review of Additive Mixed-Electric Discharge Machining: Current Status and Future Perspectives for Surface Modification of Biomedical Implants. Advances in Materials Science and Engineering, 2017, 2017, 1-23.	1.8	78
156	Experimental and Numerical Investigation of Low-Pressure Preswirl Stator-Rotor Cooling System. , 2016, , .		0
157	Powder Mixed Electric Discharge Machining: An Innovative Surface Modification Technique to Enhance Fatigue Performance and Bioactivity of Î²-Ti Implant for Orthopedics Application. Journal of Computing and Information Science in Engineering, 2016, 16, .	2.7	55
158	Multi-objective optimization of powder mixed electric discharge machining parameters for fabrication of biocompatible layer on Î²-Ti alloy using NSGA-II coupled with Taguchi based response surface methodology. Journal of Mechanical Science and Technology, 2016, 30, 4195-4204.	1.5	98
159	Electric discharge machining â€“ A potential choice for surface modification of metallic implants for orthopedic applications: A review. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 331-353.	2.4	133
160	Effect of Surface Nano-Porosities Fabricated by Powder Mixed Electric Discharge Machining on Bone-Implant Interface: An Experimental and Finite Element Study. Nanoscience and Nanotechnology Letters, 2016, 8, 815-826.	0.4	51
161	To optimize the surface roughness and microhardness of Î²-Ti alloy in PMEDM process using Non-dominated Sorting Genetic Algorithm-II. , 2015, , .		12
162	Processing and Characterization of Novel Biomimetic Nanoporous Bioceramic Surface on Î²-Ti Implant by Powder Mixed Electric Discharge Machining. Journal of Materials Engineering and Performance, 2015, 24, 3622-3633.	2.5	91

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163	Potential of Powder Mixed Electric Discharge Machining to Enhance the Wear and Tribological Performance of <I>Î²</I>-Ti Implant for Orthopedic Applications. Journal of Nanoengineering and Nanomanufacturing, 2015, 5, 261-269.	0.3	31
164	On briefing the surface modifications of polylactic acid: A scope for betterment of biomedical structures. Journal of Thermoplastic Composite Materials, 0, , 089270571985605.	4.2	23
165	CHARACTERIZATION AND ELECTROCHEMICAL CORROSION ANALYSIS OF HEAT-TREATED REINFORCED HA COATINGS DEPOSITED BY VACUUM PLASMA SPRAY TECHNIQUE. Surface Review and Letters, 0, , 2141003.	1.1	0
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167	Ultra-precision diamond Processing of biodegradable AZ31 alloy for orthopaedic application. Surface Review and Letters, 0, , .	1.1	0
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