

Atul Babbar

List of Publications by Year in descending order

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36
papers

543
citations

759055

12
h-index

752573

20
g-index

36
all docs

36
docs citations

36
times ranked

227
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization, and bioactivity investigation of biomimetic biodegradable PLA scaffold fabricated by fused filament fabrication process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	71
2	In-situ simultaneous surface finishing using abrasive flow machining via novel fixture. Journal of Manufacturing Processes, 2020, 50, 266-278.	2.8	44
3	Enhancement of activated tungsten inert gas (A-TIG) welding using multi-component TiO ₂ -SiO ₂ -Al ₂ O ₃ hybrid flux. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106912.	2.5	35
4	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.	2.6	34
5	In vivo evaluation of machining forces, torque, and bone quality during skull bone grinding. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 626-638.	1.0	31
6	Thermogenesis mitigation using ultrasonic actuation during bone grinding: a hybrid approach using CEM43 ^o C and Arrhenius model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	26
7	Regression Model and Optimization of Magnetic Abrasive Finishing of Flat Brass Plate. Indian Journal of Science and Technology, 2017, 10, 1-7.	0.5	22
8	Rotary ultrasonic milling of C/SiC composites fabricated using chemical vapor infiltration and needling technique. Materials Research Express, 2019, 6, 085607.	0.8	21
9	Enhancement of surface roughness for brittle material during rotary ultrasonic machining. MATEC Web of Conferences, 2018, 249, 01006.	0.1	18
10	Magneto-Rheological Fluid Assisted Abrasive Nanofinishing of β -Phase Ti-Nb-Ta-Zr Alloy: Parametric Appraisal and Corrosion Analysis. Materials, 2020, 13, 5156.	1.3	18
11	Experimental Investigation and Optimization of Electric Discharge Machining Process Parameters Using Grey-Fuzzy-Based Hybrid Techniques. Materials, 2021, 14, 5820.	1.3	17
12	Finite element simulation and integration of CEM43 ^o C and Arrhenius Models for ultrasonic-assisted skull bone grinding: A thermal dose model. Medical Engineering and Physics, 2021, 90, 9-22.	0.8	16
13	Experimental analysis of wear and multi-shape burr loading during neurosurgical bone grinding. Journal of Materials Research and Technology, 2021, 12, 15-28.	2.6	16
14	Neurosurgical Bone Grinding. , 2019, , 137-155.		14
15	Preliminary investigations of rotary ultrasonic neurosurgical bone grinding using Grey-Taguchi optimization methodology. Grey Systems Theory and Application, 2020, 10, 479-493.	1.0	14
16	Machining of hard and brittle materials: A comprehensive review. Materials Today: Proceedings, 2022, 50, 1048-1052.	0.9	14
17	Thermo-mechanical aspects and temperature measurement techniques of bone grinding. Materials Today: Proceedings, 2020, 33, 1458-1462.	0.9	12
18	Comparative statement for diametric delamination in drilling of cortical bone with conventional and ultrasonic assisted drilling techniques. Journal of Orthopaedics, 2021, 25, 53-58.	0.6	12

#	ARTICLE	IF	CITATIONS
19	3D Bioprinting in Pharmaceuticals, Medicine, and Tissue Engineering Applications. , 2020, , 147-161.		12
20	Effect of post weld thermal aging (PWTA) sensitization on micro-hardness and corrosion behavior of AISI 304 weld joints. Journal of Physics: Conference Series, 2019, 1240, 012078.	0.3	10
21	Histological evaluation of thermal damage to Osteocytes: A comparative study of conventional and ultrasonic-assisted bone grinding. Medical Engineering and Physics, 2021, 90, 1-8.	0.8	10
22	Potential applications of three-dimensional printing for anatomical simulations and surgical planning. Materials Today: Proceedings, 2020, 33, 1558-1561.	0.9	8
23	EXPERIMENTAL INVESTIGATION AND PARAMETRIC OPTIMIZATION OF NEUROSURGICAL BONE GRINDING UNDER BIO-MIMIC ENVIRONMENT. Surface Review and Letters, 2023, 30, .	0.5	7
24	A Review Study on Miniaturization. , 2020, , 111-131.		7
25	Effect of Process Parameters on Cutting Forces and Osteonecrosis for Orthopedic Bone Drilling Applications. , 2020, , 93-108.		7
26	Multi-objective optimization of magnetic abrasive finishing using grey relational analysis. Materials Today: Proceedings, 2022, 50, 570-575.	0.9	6
27	Biomaterials and Fabrication Methods of Scaffolds for Tissue Engineering Applications. Materials Horizons, 2020, , 167-186.	0.3	6
28	Fabrication of Microchannels using Conventional and Hybrid Machining Processes. , 2020, , 37-51.		6
29	Fabrication and Machining Methods of Composites for Aerospace Applications. , 2020, , 109-124.		6
30	A Trending Nonconventional Hybrid Finishing/Machining Process. , 2020, , 79-93.		5
31	Investigation of Functionally Graded Adherents on Failure of Socket Joint of FRP Composite Tubes. Materials, 2021, 14, 6365.	1.3	5
32	On investigations of 3D printed nylon 6 parts prepared by fused filament fabrication. Materials Today: Proceedings, 2022, 48, 1153-1156.	0.9	3
33	Functionalized biomaterials for 3D printing: An overview of the literature. , 2021, , 87-107.		3
34	Influence of Cutting Force and Drilling Temperature on Glass Hole Surface Integrity During Rotary Ultrasonic Drilling. Lecture Notes in Mechanical Engineering, 2021, , 369-378.	0.3	3
35	Latest trend in building construction: three-dimensional printing. Journal of Physics: Conference Series, 2021, 1950, 012007.	0.3	2
36	Potential Application of CEM43°C and Arrhenius Model in Neurosurgical Bone Grinding. Materials Forming, Machining and Tribology, 2022, , 145-158.	0.7	2