Vivek Bajpai

List of Publications by Year
in descending order

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44	788	516561	552653
papers	citations	16 h-index	26 g-index

47	47	47	583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mass fabrication of 2D nanostructure (ZnO) in chemical growth solution using tip induced lithography. Materials and Manufacturing Processes, 2022, 37, 177-185.	2.7	1
2	Rapid synthesis of ZnO nanostructures on woven carbon fiber using microwave treated chemical bath deposition and their characterization. Materials Today: Proceedings, 2022, 57, 84-89.	0.9	3
3	Finite Element Analysis of Machining Heat Treated Titanium Alloy Ti54M. , 2022, , 415-427.		0
4	Feasibility analysis of novel Maglev EDM by comparing with conventional micro EDM. Scientific Reports, 2022, 12, 2613.	1.6	16
5	Alteration in Ti6Al4V implant surface properties with micro textures density. Surface Engineering, 2022, 38, 174-182.	1.1	3
6	Achieving nano-patterned features by micro-EDM process using vertically aligned ZnO nanorods grown on microprobe tip: A scaling approach. Microelectronic Engineering, 2022, 260, 111792.	1.1	5
7	Hydrothermally grown ZnO NSs on Bi-Directional woven carbon fiber and effect of synthesis parameters on morphology. Ceramics International, 2021, 47, 8208-8217.	2.3	11
8	Graphene-based metal matrix nanocomposites: Recent development and challenges. Journal of Composite Materials, 2021, 55, 2369-2413.	1.2	26
9	Surface Free Energy and Bacterial Attachment on Microtextured Ti6Al4V Alloy. Journal of Materials Engineering and Performance, 2021, 30, 3968-3975.	1.2	1
10	Development of a vibration free machine structure for high-speed micro-milling center. International Journal of Advanced Manufacturing Technology, 2021, 116, 3489-3506.	1.5	7
11	Experimental investigation of top burr formation in high-speed micro-milling of Ti6Al4V alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 730-738.	1.5	16
12	Surface properties and bacterial behavior of micro conical dimple textured Ti6Al4V surface through micro-milling. Surfaces and Interfaces, 2020, 21, 100714.	1.5	19
13	Orthogonal machining of Heat Treated Ti-10-2-3: FE and Experimental. Materials and Manufacturing Processes, 2020, 35, 1822-1831.	2.7	7
14	A novel approach to synthesize nitrogen-doped graphene in aspects of milling energy. Diamond and Related Materials, 2020, 110, 108116.	1.8	3
15	Effect of cryogenic quenching on microstructure and microhardness of Ti-6Al-4V alloy. Materials Letters, 2020, 267, 127532.	1.3	11
16	Introduction to high-speed machining (HSM). , 2020, , 1-25.		10
17	Recent trends, opportunities and other aspects of micro-EDM for advanced manufacturing: a comprehensive review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	41
18	Fabrication and Characterization of Conical Micro Dimple Textures on Ti6Al4V for Higher Biocompatibility. , 2020, , .		2

#	Article	IF	Citations
19	Process parameters, development and applications of stir cast composite: A review. Materialpruefung/Materials Testing, 2020, 62, 196-208.	0.8	26
20	Mechanical micro-texturing and characterization on Ti6Al4V for the improvement of surface properties. Surface and Coatings Technology, 2019, 380, 125087.	2.2	22
21	Diagnosis check in the Vibratory Feeder unit using FEA technique. Materials Today: Proceedings, 2019, 16, 329-335.	0.9	1
22	Replacement of Hazard Lubricants by Green Coolant in Machining of Ti6Al4V: A 3D FEM Approach. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1027-1035.	1.1	5
23	Assessment of the mechanical properties of aluminium metal matrix composite: A review. Journal of Reinforced Plastics and Composites, 2019, 38, 267-298.	1.6	51
24	Cryogenic Machining. Materials Forming, Machining and Tribology, 2019, , 29-52.	0.7	1
25	Effect of SiC Reinforced Particle Parameters in the Development of Aluminium Based Metal Matrix Composite. Evergreen, 2019, 6, 200-206.	0.3	18
26	An Experimental Study of Surface Roughness Variation in End Milling of Super Duplex 2507 Stainless Steel. Materials Today: Proceedings, 2018, 5, 3682-3689.	0.9	21
27	FE simulation of machining of Ti-54M titanium alloy for industry relevant outcomes. Measurement: Journal of the International Measurement Confederation, 2018, 129, 268-276.	2.5	15
28	Metal matrix nano composites using graphene nano platelets indented on copper particles in aluminium matrix. Advanced Materials Letters, 2018, 9, 652-655.	0.3	6
29	Recent advances in characterization, modeling and control of burr formation in micro-milling. Manufacturing Letters, 2017, 13, 1-5.	1.1	26
30	FE modeling of burr size in high- speed micro-milling of Ti6Al4V. Precision Engineering, 2017, 49, 287-292.	1.8	58
31	Burr height prediction of Ti6Al4V in high speed micro-milling by mathematical modeling. Manufacturing Letters, 2017, 11, 12-16.	1.1	22
32	Fabrication and functional characterization of engineered features on pyrolytic carbon. Advances in Manufacturing, 2016, 4, 134-141.	3.2	4
33	Effect of Thermal and Material Anisotropy of Pyrolytic Carbon in Vibration-Assisted Micro-EDM Process. Materials and Manufacturing Processes, 2016, 31, 1879-1888.	2.7	13
34	Tool life improvement in cryogenic cooled milling of the preheated Tiâ€“6Alâ€“4V. International Journal of Advanced Manufacturing Technology, 2015, 79, 665-673.	1.5	34
35	Finite element modeling of hard turning process via a micro-textured tool. International Journal of Advanced Manufacturing Technology, 2015, 78, 1393-1405.	1.5	81
36	Finite Element Modeling of Three-Dimensional Milling Process of Tiâ€“6Alâ€“4V. Materials and Manufacturing Processes, 2014, 29, 564-571.	2.7	29

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37	Finite element modeling of orthogonal micromachining of anisotropic pyrolytic carbon via damaged plasticity. Precision Engineering, 2014, 38, 300-310.	1.8	2
38	Brittle damage and interlaminar decohesion in orthogonal micromachining of pyrolytic carbon. International Journal of Machine Tools and Manufacture, 2013, 64, 20-30.	6.2	5
39	Burr Formation and Surface Quality in High Speed Micromilling of Titanium Alloy (Ti6Al4V). , 2013, , .		18
40	Orthogonal Micro-Grooving of Anisotropic Pyrolytic Carbon. Materials and Manufacturing Processes, 2011, 26, 1481-1493.	2.7	10
41	Characterization and modeling of burr formation in micro-end milling. Precision Engineering, 2011, 35, 625-637.	1.8	127
42	Micromachining characterization of anisotropic pyrolytic carbon. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 1591-1605.	1.5	5
43	Finite Element Modeling of Orthogonal Cutting of Pyrolytic Carbon. , 2011, , .		1
44	Nano electrical discharge machining â€“ the outlook, challenges, and opportunities. Materials and Manufacturing Processes, 0, , 1-35.	2.7	4