

# Vivek Bajpai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9484810/publications.pdf>

Version: 2024-02-01

44  
papers

788  
citations

516561

16  
h-index

552653

26  
g-index

47  
all docs

47  
docs citations

47  
times ranked

583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and modeling of burr formation in micro-end milling. Precision Engineering, 2011, 35, 625-637.	1.8	127
2	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
3	FE modeling of burr size in high- speed micro-milling of Ti6Al4V. Precision Engineering, 2017, 49, 287-292.	1.8	58
4	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
5	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
6	Tool life improvement in cryogenic cooled milling of the preheated Ti6Al4V. International Journal of Advanced Manufacturing Technology, 2015, 79, 665-673.	1.5	34
7	Finite Element Modeling of Three-Dimensional Milling Process of Ti6Al4V. Materials and Manufacturing Processes, 2014, 29, 564-571.	2.7	29
8	Recent advances in characterization, modeling and control of burr formation in micro-milling. Manufacturing Letters, 2017, 13, 1-5.	1.1	26
9	Graphene-based metal matrix nanocomposites: Recent development and challenges. Journal of Composite Materials, 2021, 55, 2369-2413.	1.2	26
10	Process parameters, development and applications of stir cast composite: A review. Materialpruefung/Materials Testing, 2020, 62, 196-208.	0.8	26
11	Burr height prediction of Ti6Al4V in high speed micro-milling by mathematical modeling. Manufacturing Letters, 2017, 11, 12-16.	1.1	22
12	Mechanical micro-texturing and characterization on Ti6Al4V for the improvement of surface properties. Surface and Coatings Technology, 2019, 380, 125087.	2.2	22
13	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
14	Surface properties and bacterial behavior of micro conical dimple textured Ti6Al4V surface through micro-milling. Surfaces and Interfaces, 2020, 21, 100714.	1.5	19
15	Burr Formation and Surface Quality in High Speed Micromilling of Titanium Alloy (Ti6Al4V). , 2013, , .		18
16	Effect of SiC Reinforced Particle Parameters in the Development of Aluminium Based Metal Matrix Composite. Evergreen, 2019, 6, 200-206.	0.3	18
17	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
18	Feasibility analysis of novel Maglev EDM by comparing with conventional micro EDM. Scientific Reports, 2022, 12, 2613.	1.6	16

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Effect of cryogenic quenching on microstructure and microhardness of Ti-6Al-4V alloy. Materials Letters, 2020, 267, 127532.	1.3	11
22	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
23	Orthogonal Micro-Grooving of Anisotropic Pyrolytic Carbon. Materials and Manufacturing Processes, 2011, 26, 1481-1493.	2.7	10
24	Introduction to high-speed machining (HSM). , 2020, , 1-25.		10
25	Orthogonal machining of Heat Treated Ti-10-2-3: FE and Experimental. Materials and Manufacturing Processes, 2020, 35, 1822-1831.	2.7	7
26	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
27	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
28	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
29	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
30	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
31	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
32	Fabrication and functional characterization of engineered features on pyrolytic carbon. Advances in Manufacturing, 2016, 4, 134-141.	3.2	4
33	Nano electrical discharge machining “ the outlook, challenges, and opportunities. Materials and Manufacturing Processes, 0, , 1-35.	2.7	4
34	A novel approach to synthesize nitrogen-doped graphene in aspects of milling energy. Diamond and Related Materials, 2020, 110, 108116.	1.8	3
35	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
36	Alteration in Ti6Al4V implant surface properties with micro textures density. Surface Engineering, 2022, 38, 174-182.	1.1	3

#	ARTICLE	IF	CITATIONS
37	Finite element modeling of orthogonal micromachining of anisotropic pyrolytic carbon via damaged plasticity. Precision Engineering, 2014, 38, 300-310.	1.8	2
38	Fabrication and Characterization of Conical Micro Dimple Textures on Ti6Al4V for Higher Biocompatibility. , 2020, , .		2
39	Diagnosis check in the Vibratory Feeder unit using FEA technique. Materials Today: Proceedings, 2019, 16, 329-335.	0.9	1
40	Cryogenic Machining. Materials Forming, Machining and Tribology, 2019, , 29-52.	0.7	1
41	Surface Free Energy and Bacterial Attachment on Microtextured Ti6Al4V Alloy. Journal of Materials Engineering and Performance, 2021, 30, 3968-3975.	1.2	1
42	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
43	Finite Element Modeling of Orthogonal Cutting of Pyrolytic Carbon. , 2011, , .		1
44	Finite Element Analysis of Machining Heat Treated Titanium Alloy Ti54M. , 2022, , 415-427.		0