

Vijay Kumar Jain

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4293850/vijay-kumar-jain-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

74
papers

1,592
citations

24
h-index

36
g-index

76
ext. papers

1,831
ext. citations

2.9
avg, IF

5.02
L-index

#	Paper	IF	Citations
74	Sustainable Electrochemical Micromachining Using Atomized Electrolyte Flushing. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 043504	3.9	2
73	Micromachining: An overview (Part I). <i>Journal of Micromanufacturing</i> , 2020 , 3, 142-158	1.7	6
72	Reducing overcut in electrochemical micromachining process by altering the energy of voltage pulse using sinusoidal and triangular waveform. <i>International Journal of Machine Tools and Manufacture</i> , 2020 , 151, 103526	9.4	14
71	Optimization of process parameters in nano-finishing of Co-Cr-Mo alloy knee joint. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 985-992	4.1	9
70	Investigations into Wire Electrochemical Machining of Stainless Steel 304. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2020 , 41-52	0.3	
69	Analysis of finishing forces and surface finish during magnetorheological abrasive flow finishing of asymmetric workpieces. <i>Journal of Micromanufacturing</i> , 2019 , 2, 133-151	1.7	15
68	Real-time experimental study and numerical simulation of phase change material during the discharge stage: Thermo-fluidic behavior, solidification morphology, and energy content. <i>Energy Storage</i> , 2019 , 1, e51	2.8	4
67	Experimental and analytical investigations into wire electrochemical micro turning. <i>Journal of Micromanufacturing</i> , 2019 , 2, 42-58	1.7	4
66	Medium rheological characterization and performance study during rotational abrasive flow finishing (R-AFF) of Al alloy and Al alloy/SiC MMCs. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1149-1163	3.2	10
65	Fabrication of Micro-holes Array Through Multiple Electrodes with Distributed Pulsed Electrochemical Machining. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019 , 47-60	0.3	
64	Experimental Investigations into Wire Electrical Discharge Machining Process for the Machining of Ti-6Al-4V. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019 , 329-337	0.3	
63	Micro-electrical Discharge Milling Operation. <i>Materials Forming, Machining and Tribology</i> , 2019 , 23-51	0.5	4
62	Development of inverse replica fixture for nano-finishing of knee joint using R-MRAFF process. <i>Journal of Micromanufacturing</i> , 2019 , 2, 35-41	1.7	12
61	Experimental investigations into nanofinishing of Ti6Al4V flat disc using magnetorheological finishing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1055-1065	3.2	18
60	Force analysis of magnetic abrasive nano-finishing of magnetic and non-magnetic materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1137-1147	3.2	8
59	Viscoelastic medium modeling and surface roughness simulation of microholes finished by abrasive flow finishing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1165-1182	3.2	12
58	Preliminary investigations into nano-finishing of freeform surface (femoral) using inverse replica fixture. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1081-1092	3.2	14

57	Experimental and theoretical investigations into internal magnetic abrasive finishing of a revolver barrel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1105-1122	3.2	13
56	Investigations into insertion force of electrochemically micro-textured hypodermic needles. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1311-1326	3.2	9
55	Electrochemical micro texturing on flat and curved surfaces: simulation and experiments. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1269-1286	3.2	23
54	Investigations into the mechanism of material removal and surface modification at atomic scale on stainless steel using molecular dynamics simulation. <i>Philosophical Magazine</i> , 2018 , 98, 1437-1469	1.6	14
53	Differential finishing of freeform surfaces (knee joint) using R-MRAFF process and negative replica of workpiece as a fixture. <i>Machining Science and Technology</i> , 2018 , 22, 671-695	2	15
52	Investigations into side gap in wire electrochemical micromachining (wire-ECMM). <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 4469-4478	3.2	11
51	Simulation and experimental investigations into abrasive flow nanofinishing of surgical stainless steel tubes. <i>Machining Science and Technology</i> , 2018 , 22, 454-475	2	13
50	On the effect of relative size of magnetic particles and abrasive particles in MR fluid-based finishing process. <i>Machining Science and Technology</i> , 2018 , 22, 493-506	2	24
49	Analysis, design and synthesis of water-based magnetorheological fluid for CMMRF process. <i>Journal of Micromanufacturing</i> , 2018 , 1, 45-52	1.7	8
48	Wire Electrochemical Threading: A Technique for Fabricating Macro/Micro Thread Profiles. <i>Journal of the Electrochemical Society</i> , 2018 , 165, E397-E405	3.9	12
47	Finishing force analysis and simulation of nanosurface roughness in abrasive flow finishing process using medium rheological properties. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 2163-2178	3.2	17
46	Nano-finishing of cylindrical hard steel tubes using rotational abrasive flow finishing (R-AFF) process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 2179-2187	3.2	23
45	Fabrication of complex circuit on printed circuit board (PCB) using electrochemical micro-machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 2073-2081	3.2	7
44	A 2D CFD simulation of MR polishing medium in magnetic field-assisted finishing process using electromagnet. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 76, 173-187	3.2	19
43	Rheological Properties and Their Correlation with Surface Finish Quality in MR Fluid-Based Finishing Process. <i>Machining Science and Technology</i> , 2014 , 18, 367-385	2	41
42	Fabrication of Microchannels in Ceramics (Quartz) Using Electrochemical Spark Micromachining (ECSMM). <i>Journal of Advanced Manufacturing Systems</i> , 2014 , 13, 5-16	1.8	24
41	A Theoretical Assessment of Surface Defect Machining and Hot Machining of Nanocrystalline Silicon Carbide. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014 , 136,	3.3	29
40	Fabrication of micro-features and micro-tools using electrochemical micromachining. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 61, 1175-1183	3.2	49

39	Experimental investigations into surface roughness and yield stress in magnetorheological fluid based nano-finishing process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 855-860	1.7	25
38	Some aspects of fabrication of micro devices by electrochemical micromachining (ECMM) and its finishing by magnetorheological fluid. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 59, 987-996	3.2	19
37	Effect of fluid composition on nanofinishing of single-crystal silicon by magnetic field-assisted finishing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 55, 243-252	3.2	34
36	The Out-of-Roundness of the Internal Surfaces of Stainless Steel Tubes Finished by the Rotational Magnetorheological Abrasive Flow Finishing Process. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 1073-1084	4.1	34
35	Traveling down the microchannels: Fabrication and analysis 2010 ,		1
34	NANO-FINISHING OF STAINLESS-STEEL TUBES USING ROTATIONAL MAGNETORHEOLOGICAL ABRASIVE FLOW FINISHING PROCESS. <i>Machining Science and Technology</i> , 2010 , 14, 365-389	2	62
33	Simultaneous microchannel formation and copper deposition on silicon along with surface treatment 2010 ,		2
32	Rheological characterization of magnetorheological polishing fluid for MRAFF. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 42, 656-668	3.2	48
31	Experimental investigations and modeling of drill bit-guided abrasive flow finishing (DBG-AFF) process. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 42, 678-688	3.2	41
30	Analysis of contoured holes produced using STED process. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 44, 133-148	3.2	15
29	ANALYSIS OF PERFORMANCE OF PULSATING FLEXIBLE MAGNETIC ABRASIVE BRUSH (P-FMAB). <i>Machining Science and Technology</i> , 2008 , 12, 53-76	2	18
28	Development of a cutting tool condition monitoring system for high speed turning operation by vibration and strain analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 37, 471-485	3.2	47
27	Analysis of magnetorheological abrasive flow finishing (MRAFF) process. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 38, 613-621	3.2	41
26	Predicting radial overcut in deep holes drilled by shaped tube electrochemical machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 39, 47-54	3.2	22
25	Effect of extrusion pressure and number of finishing cycles on surface roughness in magnetorheological abrasive flow finishing (MRAFF) process. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 33, 725-729	3.2	41
24	Hole quality and interelectrode gap dynamics during pulse current electrochemical deep hole drilling. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 34, 79-95	3.2	37
23	Parametric optimization of advanced fine-finishing processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 34, 1191-1213	3.2	38
22	OPTIMIZATION OF ELECTRO-CHEMICAL MACHINING PROCESS PARAMETERS USING GENETIC ALGORITHMS. <i>Machining Science and Technology</i> , 2007 , 11, 235-258	2	44

21	Modeling and Simulation of Surface Roughness in Magnetic Abrasive Finishing Using Non-Uniform Surface Profiles. <i>Materials and Manufacturing Processes</i> , 2007 , 22, 256-270	4.1	46
20	Experimental investigations into forces acting during a magnetic abrasive finishing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2006 , 30, 652-662	3.2	87
19	Prediction of surface roughness during abrasive flow machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2006 , 31, 258-267	3.2	46
18	MAGNETIC ABRASIVE FINISHING PROCESS DA PARAMETRIC ANALYSIS. <i>Journal of Advanced Manufacturing Systems</i> , 2005 , 04, 131-150	1.8	15
17	MEASUREMENT OF HYDROGEN CONTENT IN ELECTRICAL DISCHARGE MACHINED COMPONENTS. <i>Machining Science and Technology</i> , 2005 , 9, 289-299	2	1
16	ON THE PERFORMANCE ANALYSIS OF FLEXIBLE MAGNETIC ABRASIVE BRUSH. <i>Machining Science and Technology</i> , 2005 , 9, 601-619	2	33
15	Theoretical Analysis of Thermal Stresses in Electro-discharge Diamond Grinding. <i>Machining Science and Technology</i> , 2004 , 8, 119-140	2	9
14	Parametric Study of Temperature Distribution in Electrodischarge Diamond Grinding. <i>Materials and Manufacturing Processes</i> , 2004 , 19, 1071-1101	4.1	7
13	Analysis of magnetic abrasive finishing with slotted magnetic pole. <i>AIP Conference Proceedings</i> , 2004 ,	0	6
12	On-Line Monitoring of Tool Wear and Control of Dimensional Inaccuracy in Turning. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2001 , 123, 10-12	3.3	10
11	ELECTRICAL DISCHARGE DIAMOND GRINDING OF HIGH SPEED STEEL. <i>Machining Science and Technology</i> , 1999 , 3, 91-105	2	55
10	ANALYSIS OF SPARK PROFILES DURING EDM PROCESS. <i>Machining Science and Technology</i> , 1997 , 1, 195-217		105
9	Characterization of shearing features for sheet metal components in 2-D layout. <i>International Journal of Production Research</i> , 1996 , 34, 157-190	7.8	4
8	Experimental Investigations into Traveling Wire Electrochemical Spark Machining (TW-ECSM) of Composites. <i>Journal of Engineering for Industry</i> , 1991 , 113, 75-84		68
7	Tool Design for ECM: Correction Factor Method. <i>Journal of Engineering for Industry</i> , 1988 , 110, 111-118		24
6	On the production of elliptical holes by ECM. <i>International Journal of Production Research</i> , 1987 , 25, 433-445	7.8	5
5	Effects of Accelerated Tests on Shear Flow Stress in Machining. <i>Journal of Engineering for Industry</i> , 1987 , 109, 206-212		5
4	Investigations into the effect of cathode material on temperature distribution during electrochemical machining. <i>International Journal of Production Research</i> , 1986 , 24, 439-450	7.8	6

3	Micro-texturing on flat and cylindrical surfaces using electric discharge micromachining. <i>Journal of Micromanufacturing</i> ,251659842098040	1.7	5
2	Micro-machining: An overview (Part II). <i>Journal of Micromanufacturing</i> ,251659842110452	1.7	1
1	3-D fabrication using electrical discharge-milling: an overview. <i>Materials and Manufacturing Processes</i> ,1-31	4.1	1