

Abhay Sharma

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,299
citations

361296

20
h-index

377752

34
g-index

62
all docs

62
docs citations

62
times ranked

974
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling Liquation and Segregation Induced Failure Mechanism in Thick Dissimilar Aluminum Alloy Electron-Beam Welds. <i>Metals</i> , 2022, 12, 486.	1.0	3
2	Assessment of Stability and Thermophysical Properties of Jojoba Nanofluid as a Metal-Cutting Fluid: Experimental and Modelling Investigation. <i>Lubricants</i> , 2022, 10, 126.	1.2	2
3	Discrete wavelet analysis of mutually interfering co-existing welding signals in twin-wire robotic welding. <i>Journal of Manufacturing Processes</i> , 2021, 63, 139-151.	2.8	10
4	Bibliometric analysis of machining of titanium alloy research. <i>Materials Today: Proceedings</i> , 2021, 44, 4031-4038.	0.9	5
5	Recent developments in AC square waveform welding. <i>Materials Today: Proceedings</i> , 2021, 45, 5709-5713.	0.9	2
6	A Review of Minimum Quantity Lubrication (MQL) Based on Bibliometry. <i>Current Materials Science</i> , 2021, 14, 13-39.	0.2	3
7	Bi-polynomial fourth-order weld bead model for improved material utilization and accuracy in wire-arc additive manufacturing: A case of transverse twin-wire welding. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021, 2, 100049.	1.2	4
8	Thermal modelling of alternating current square waveform arc welding. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100885.	2.8	9
9	Mechanism of Gap Bridgeability in Lap-Fillet Laser-Arc Hybrid Welding. <i>Lasers in Manufacturing and Materials Processing</i> , 2021, 8, 355-371.	1.2	6
10	Machinability of wire and arc additive manufactured components. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 35, 379-389.	2.3	25
11	Visualizing the vibration effect on the tandem-pulsed gas metal arc welding in the presence of surface tension active elements. <i>International Journal of Heat and Mass Transfer</i> , 2020, 161, 120310.	2.5	14
12	Metallurgical Characterization of Penetration Shape Change in Workpiece Vibration-Assisted Tandem-Pulsed Gas Metal Arc Welding. <i>Materials</i> , 2020, 13, 3096.	1.3	10
13	Assessment of jojoba as a pure and nano-fluid base oil in minimum quantity lubrication (MQL) hard-turning of Ti-6Al-4V: A step towards sustainable machining. <i>Journal of Cleaner Production</i> , 2020, 272, 122553.	4.6	82
14	Performance Evaluation of Alternating Current Square Waveform Submerged Arc Welding as a Candidate for Fabrication of Thick Welds in 2.25Cr-1Mo Heat-Resistant Steel. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 2020, 142, .	0.4	9
15	A unique CEL numerical method on material flow in a molten pool of workpiece vibration assisted welding. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2020, 38, 54s-58s.	0.1	2
16	A review on localised and multi-point aerosol application in minimum quantity lubrication machining. <i>International Journal of Precision Technology</i> , 2020, 9, 1.	0.2	0
17	Prediction and Control of Asymmetric Bead Shape in Laser-Arc Hybrid Fillet-Lap Joints in Sheet Metal Welds. <i>Lasers in Manufacturing and Materials Processing</i> , 2019, 6, 67-84.	1.2	6
18	A new approach for attaining uniform properties in build direction in additive manufactured components through coupled thermal-hardness model. <i>Journal of Manufacturing Processes</i> , 2019, 40, 46-58.	2.8	17

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19	Improving machining performance of Ti-6Al-4V through multi-point minimum quantity lubrication method. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 321-336.	1.5	32
20	A Comparative Study between Linear and Nonlinear Regression Analysis for Prediction of Weld Penetration Profile in AC Waveform Submerged Arc Welding of Heat Resistant Steel. Indian Welding Journal, 2019, 52, 40.	0.0	3
21	Arc Behavior Study Using Welding Current Module and its Impact on Residual Stress and Weld Bead in Anti-Phase Synchronized Twin-Wire Gas Metal Arc Welding. Indian Welding Journal, 2019, 52, 64.	0.0	1
22	Role of hybrid tool pin profile on enhancing welding speed and mechanical properties of AA2219-T6 friction stir welds. Journal of Materials Processing Technology, 2018, 257, 257-269.	3.1	28
23	Process parameters-weld bead geometry interactions and their influence on mechanical properties: A case of dissimilar aluminium alloy electron beam welds. Defence Technology, 2018, 14, 137-150.	2.1	35
24	A fundamental study on qualitatively viable sustainable welding process maps. Journal of Manufacturing Systems, 2018, 46, 221-230.	7.6	14
25	A comprehensive assessment of minimum quantity lubrication machining from quality, production, and sustainability perspectives. Sustainable Materials and Technologies, 2018, 17, e00070.	1.7	10
26	A Semi-Analytical Nonlinear Regression Approach for Weld Profile Prediction: A Case of Alternating Current Square Waveform Submerged Arc Welding of Heat Resistant Steel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	11
27	Combined Cold Expansion and Friction Stir Processing of Fastener Holes in Aluminum Alloy Al-2014-T6. Transactions of the Indian Institute of Metals, 2017, 70, 107-114.	0.7	2
28	A new process for design and manufacture of tailor-made functionally graded composites through friction stir additive manufacturing. Journal of Manufacturing Processes, 2017, 26, 122-130.	2.8	63
29	Mathematical model of complex weld penetration profile: A case of square AC waveform arc welding. Journal of Manufacturing Processes, 2017, 30, 483-491.	2.8	16
30	Multi-objective optimization of electro-discharge machining (EDM) parameter for sustainable machining. Materials Today: Proceedings, 2017, 4, 9147-9157.	0.9	14
31	On processâ€‘structureâ€‘property interconnection in anti-phase synchronised twin-wire GMAW of low carbon steel. Science and Technology of Welding and Joining, 2016, 21, 452-459.	1.5	20
32	Development of a friction model and its application in finite element analysis of minimum quantity lubrication machining of Ti-6Al-4 V. Journal of Materials Processing Technology, 2016, 238, 181-194.	3.1	19
33	A comparative study on mechanical properties of single- and twin-wire welded joints through multi-objective meta-heuristic optimisation. International Journal of Manufacturing Research, 2016, 11, 374.	0.1	4
34	Vibration assisted welding processes and their influence on quality of welds. Science and Technology of Welding and Joining, 2016, 21, 243-258.	1.5	52
35	Dissimilar Friction Stir Welds in AA2219-AA5083 Aluminium Alloys: Effect of Process Parameters on Material Inter-Mixing, Defect Formation, and Mechanical Properties. Transactions of the Indian Institute of Metals, 2016, 69, 1397-1415.	0.7	53
36	A scheme of comprehensive assessment of weld bead geometry. International Journal of Advanced Manufacturing Technology, 2016, 82, 1507-1515.	1.5	9

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37	Integrated model for assessment of electromagnetic force field due to arc welding. Science and Technology of Welding and Joining, 2015, 20, 563-570.	1.5	7
38	Mathematical model of bead profile in high deposition welds. Journal of Materials Processing Technology, 2015, 220, 65-75.	3.1	24
39	Induction heated tool assisted friction-stir welding (i-FSW): A novel hybrid process for joining of thermoplastics. Journal of Manufacturing Processes, 2015, 20, 234-244.	2.8	86
40	Econological scheduling of a manufacturing enterprise operating under a time-of-use electricity tariff. Journal of Cleaner Production, 2015, 108, 256-270.	4.6	70
41	Magnetic pulse welding: an efficient and environmentally friendly multi-material joining technique. Journal of Cleaner Production, 2015, 100, 35-58.	4.6	167
42	Multi-Point Injection Minimum Quantity Lubrication Machining. Materials Science Forum, 2015, 830-831, 108-111.	0.3	9
43	Arc stability and its impact on weld properties and microstructure in anti-phase synchronised synergic-pulsed twin-wire gas metal arc welding. Materials & Design, 2015, 67, 293-302.	5.1	53
44	Surface Modification and Nanocomposite Layering of Fastener-Hole through Friction-Stir Processing. Materials and Manufacturing Processes, 2014, 29, 726-732.	2.7	23
45	Zone wise local characterization of welds using digital image correlation technique. Optics and Lasers in Engineering, 2014, 63, 30-42.	2.0	28
46	Identification of a friction model for minimum quantity lubrication machining. Journal of Cleaner Production, 2014, 83, 437-443.	4.6	42
47	A fundamental investigation on rotating tool cold expansion: numerical and experimental perspectives. International Journal of Advanced Manufacturing Technology, 2014, 73, 1189-1200.	1.5	14
48	Production performance of water alternate gas injection techniques for enhanced oil recovery: effect of WAG ratio, number of WAG cycles and the type of injection gas. International Journal of Oil, Gas and Coal Technology, 2014, 7, 132.	0.1	13
49	On feasibility of friction stir processing of cylindrical hole. , 2013, , 143-146.		1
50	Investigations on Gas Trapping Phenomena for Different EOR-Water Alternate Gas Injection Methodologies. , 2011, , .		1
51	Development of a new semi analytical model for prediction of bubble point pressure of crude oils. Journal of Petroleum Science and Engineering, 2011, 78, 719-731.	2.1	33
52	Investigation into Arc Behavior during Twin-Wire Submerged Arc Welding. Materials and Manufacturing Processes, 2010, 25, 873-879.	2.7	18
53	Statistical modeling of deposition rate in twin-wire submerged arc welding. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 851-863.	1.5	13
54	Estimation of heat source model parameters for twin-wire submerged arc welding. International Journal of Advanced Manufacturing Technology, 2009, 45, 1096-1103.	1.5	45

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55	Enhancement in Mechanical Properties of Tailored Welded Blanks Due to Pulsed Tig Welding. Indian Welding Journal, 2009, 42, 38.	0.0	0
56	A practical approach towards mathematical modeling of deposition rate during twin-wire submerged arc welding. International Journal of Advanced Manufacturing Technology, 2008, 36, 463-474.	1.5	27
57	Mathematical modeling of flux consumption during twin-wire welding. International Journal of Advanced Manufacturing Technology, 2008, 38, 1114-1124.	1.5	21
58	Impact of Process Modelling on Current Direction of Welding Research and Future Targets. Indian Welding Journal, 2008, 41, 43.	0.0	0
59	Modified Mathematical Models for Melting Rate in Submerged Arc Welding. Indian Welding Journal, 2007, 40, 21.	0.0	4