

# Amit Rai Dixit

## List of Publications by Year in descending order

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118  
papers

5,038  
citations

109137

35  
h-index

98622

67  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Ink Writing of Carbon-Doped Polymeric Composite Ink: A Review on Its Requirements and Applications. 3D Printing and Additive Manufacturing, 2023, 10, 828-854.	1.4	9
2	Surface integrity of tribo-adaptive layer prepared on Ti6Al4V through $\hat{1}/4$ EDC process. Surface and Coatings Technology, 2022, 429, 127922.	2.2	10
3	Modeling and parametric optimization of laser powder bed fusion 3D printing technique using artificial neural network for enhancing dimensional accuracy. Materials Today: Proceedings, 2022, 56, 873-878.	0.9	6
4	Microstructural characterization of Friction stir assisted laminated lap welding of AA6063 sheets. Materials Today: Proceedings, 2022, 56, 949-953.	0.9	5
5	Selective surface modification of SS304 using hybrid powder-mixed EDC process. Surface Engineering, 2022, 38, 8-21.	1.1	8
6	Print fidelity evaluation of PVA hydrogel using computational fluid dynamics for extrusion dependent 3D printing. IOP Conference Series: Materials Science and Engineering, 2022, 1225, 012009.	0.3	10
7	Wire Arc Additive Manufacturing "A revolutionary method in additive manufacturing. Materials Chemistry and Physics, 2022, 285, 126144.	2.0	37
8	Effects of various functional groups in graphene on the tensile and flexural properties of epoxy nanocomposites: a comparative study. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 1123-1133.	1.0	7
9	A review on the mechanical properties of polymer composites reinforced by carbon nanotubes and graphene. Carbon Letters, 2021, 31, 149-165.	3.3	182
10	A study on parametric optimization of Micro-electrical discharge coating process using response surface methodology. Materials Today: Proceedings, 2021, 38, 325-332.	0.9	7
11	Friction stir additive manufacturing "An innovative tool to enhance mechanical and microstructural properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114832.	1.7	80
12	Surface integrity and residual stress analysis of $\hat{1}/4$ EDM coated Ti-alloy miniature components. Materials and Manufacturing Processes, 2021, 36, 48-58.	2.7	16
13	Enhancement of Surface Properties of High Speed Steel Using Powder Mixed Micro-electrical Discharge Process. Lecture Notes in Mechanical Engineering, 2021, , 361-370.	0.3	0
14	On-Line Monitoring of In-Vitro Application of PWJ for Bone Cement Disintegration. Lecture Notes in Mechanical Engineering, 2021, , 100-110.	0.3	0
15	Microstructural and fractographic analysis of A359/Si <sub>3</sub> N <sub>4</sub> surface composite produced by friction stir processing. International Journal of Materials Research, 2021, 112, 68-77.	0.1	15
16	Influence of tool materials on surface modification using $\hat{1}/4$ EDC process. Surface Engineering, 2021, 37, 1084-1097.	1.1	9
17	Influence of the frequency and flow rate of a pulsating water jet on the wear damage of tantalum. Wear, 2021, 477, 203893.	1.5	17
18	20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys. Materials Chemistry and Physics, 2021, 266, 124572.	2.0	29

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19	Surface Topography Analysis of Mg-Based Composites with Different Nanoparticle Contents Disintegrated Using Abrasive Water Jet. <i>Materials</i> , 2021, 14, 5471.	1.3	5
20	Investigation on the thermal behaviour of AZ31B/waste eggshell surface composites produced by friction stir processing. <i>Composites Communications</i> , 2021, 28, 100912.	3.3	14
21	Surface modification of high-performance alloys through microelectrical discharge machining processes. , 2021, , 137-157.		3
22	Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing. <i>Materials Chemistry and Physics</i> , 2021, 257, 123717.	2.0	41
23	Measurement of machining forces and surface roughness in turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 150, 107078.	2.5	52
24	A review on the mechanical and thermal properties of graphene and graphene-based polymer nanocomposites: understanding of modelling and MD simulation. <i>Molecular Simulation</i> , 2020, 46, 136-154.	0.9	119
25	Characterization of AuNPs based ink for inkjet printing of low cost paper based sensors. <i>Materials Letters</i> , 2020, 264, 127332.	1.3	14
26	Carbon nanotube- and graphene-reinforced multiphase polymeric composites: review on their properties and applications. <i>Journal of Materials Science</i> , 2020, 55, 2682-2724.	1.7	207
27	Role of graphene in biosensor and protective textile against viruses. <i>Medical Hypotheses</i> , 2020, 144, 110253.	0.8	37
28	Utilization of ultrasonically forced pulsating water jet decaying for bone cement removal. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 829-840.	1.5	21
29	Machining performance enhancement of powder mixed electric discharge machining using Green dielectric fluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	17
30	A concise review on improvement of tribological properties by electrical discharge coating process. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	3
31	Investigations on bending of micro-thin sheets using spark discharges. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1362-1371.	2.7	13
32	Quantitative analysis of bubble size and electrodes gap at different dielectric conditions in powder mixed EDM process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3065-3075.	1.5	11
33	Rheological Behaviour of Hybrid Nanofluids: A Review. <i>Materials Forming, Machining and Tribology</i> , 2020, , 77-94.	0.7	2
34	Surface integrity in wire-EDM tangential turning of <i>in situ</i> hybrid metal matrix composite A359/B <sub>4</sub> C/Al <sub>2</sub> O <sub>3</sub> . <i>Science and Engineering of Composite Materials</i> , 2019, 26, 122-133.	0.6	13
35	Acoustic chamber length performance analysis in ultrasonic pulsating water jet erosion of ductile material. <i>Journal of Manufacturing Processes</i> , 2019, 47, 347-356.	2.8	31
36	Production of hard and lubricating surfaces on miniature components through micro-EDM process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1983-2000.	1.5	18

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37	Investigation on Pulsating Liquid Jet with Physiological Saline on Aluminium Surface. Lecture Notes in Mechanical Engineering, 2019, , 63-71.	0.3	5
38	Parametric Study During Abrasive Water Jet Turning of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2019, , 72-84.	0.3	7
39	An Investigation on Tool Flank Wear Using Alumina/MoS <sub>2</sub> Hybrid Nanofluid in Turning Operation. Lecture Notes in Mechanical Engineering, 2019, , 213-219.	0.3	9
40	Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED. Measurement: Journal of the International Measurement Confederation, 2019, 131, 628-639.	2.5	24
41	A review of the mechanical and thermal properties of graphene and its hybrid polymer nanocomposites for structural applications. Journal of Materials Science, 2019, 54, 5992-6026.	1.7	367
42	Comparison in the performance of EDM and NPMEDM using Al <sub>2</sub> O <sub>3</sub> nanopowder as an impurity in DI water dielectric. International Journal of Advanced Manufacturing Technology, 2019, 100, 1327-1339.	1.5	47
43	Surface modification of Ti-alloy by micro-electrical discharge process using tungsten disulphide powder suspension. Journal of Manufacturing Processes, 2019, 37, 28-41.	2.8	71
44	Additive Printing of Gold Nanoparticles on Paper Substrate Through Office Ink-Jet Printer. Lecture Notes in Mechanical Engineering, 2019, , 220-228.	0.3	0
45	Effect of Frequency Change During Pulsed Waterjet Interaction with Stainless Steel. Lecture Notes in Mechanical Engineering, 2019, , 85-96.	0.3	4
46	Micro-hardness Improvement of HSS Using Tungsten Tool Through Micro-electrical Discharge Process. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 289-297.	0.4	0
47	Investigation of powder mixed EDM process parameters for machining Inconel alloy using response surface methodology. Materials Today: Proceedings, 2018, 5, 6183-6188.	0.9	18
48	Prediction of temperature distribution over cutting tool with alumina-MWCNT hybrid nanofluid using computational fluid dynamics (CFD) analysis. International Journal of Advanced Manufacturing Technology, 2018, 97, 427-439.	1.5	32
49	Processing of duplex stainless steel by WEDM. Materials and Manufacturing Processes, 2018, 33, 1559-1567.	2.7	25
50	Ultrasonically generated pulsed water jet peening of austenitic stainless-steel surfaces. Journal of Manufacturing Processes, 2018, 32, 455-468.	2.8	66
51	A review on the intensification of metal matrix composites and its nonconventional machining. Science and Engineering of Composite Materials, 2018, 25, 213-228.	0.6	45
52	Surface Roughness of Graphite and Aluminium Alloy After Hydro-abrasive Machining. Lecture Notes in Mechanical Engineering, 2018, , 805-813.	0.3	8
53	Hybrid aluminium matrix composite AWJ turning using olivine and Barton garnet. International Journal of Advanced Manufacturing Technology, 2018, 94, 2293-2300.	1.5	39
54	Performance evaluation of Al <sub>2</sub> O <sub>3</sub> nano powder mixed dielectric for electric discharge machining of Inconel 825. Materials and Manufacturing Processes, 2018, 33, 986-995.	2.7	86

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55	Tribological properties of Al 7075 alloy and Al 7075 metal matrix composite reinforced with SiC, sliding under dry, oil lubricated, and inert gas environments. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 693-698.	1.0	14
56	Influence of Abrasive Water Jet Turning Parameters on Variation of Diameter of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2018, , 495-504.	0.3	13
57	Surface Treatment of AISI 304 Using Pulsating Water Jet Peening. Lecture Notes in Mechanical Engineering, 2018, , 535-548.	0.3	8
58	Effect of Water Pressure During Abrasive Waterjet Machining of Mg-Based Nanocomposite. Lecture Notes in Mechanical Engineering, 2018, , 605-612.	0.3	11
59	Novel uses of alumina/graphene hybrid nanoparticle additives for improved tribological properties of lubricant in turning operation. Tribology International, 2018, 119, 99-111.	3.0	135
60	Surface alloying of miniature components by micro-electrical discharge process. Materials and Manufacturing Processes, 2018, 33, 1051-1061.	2.7	35
61	Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation. Materials Today: Proceedings, 2018, 5, 24578-24586.	0.9	23
62	Surface Integrity analysis of Wire-EDM on in-situ hybrid composite A359/Al <sub>2</sub> O <sub>3</sub> /B4C. Materials Today: Proceedings, 2018, 5, 24632-24641.	0.9	13
63	Tribological Characteristics of Magnesium-based Nanocomposite. Materials Today: Proceedings, 2018, 5, 13079-13084.	0.9	0
64	Processing of alumina ceramics by abrasive waterjet- an experimental study. Materials Today: Proceedings, 2018, 5, 18061-18069.	0.9	9
65	Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants. International Journal of Surface Science and Engineering, 2018, 12, 207.	0.4	23
66	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on tribological behaviour of Mg-6Al alloy-based nanocomposites. International Journal of Surface Science and Engineering, 2018, 12, 402.	0.4	3
67	Parametric study and characterization of AlN-Ni-Ti6Al4V composite cladding on titanium alloy. Surface and Coatings Technology, 2018, 349, 37-49.	2.2	37
68	Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012017.	0.3	8
69	Parametric investigation on abrasive waterjet machining of alumina ceramic using response surface methodology. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012005.	0.3	12
70	Surface alloying using tungsten disulphide powder mixed in dielectric in micro-EDM on Ti6Al4V. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012040.	0.3	10
71	Residual stress and surface properties of stainless steel welded joints induced by ultrasonic pulsed water jet peening. Measurement: Journal of the International Measurement Confederation, 2018, 127, 453-462.	2.5	59
72	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on tribological behaviour of Mg-6Al alloy-based nanocomposites. International Journal of Surface Science and Engineering, 2018, 12, 402.	0.4	2

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73	Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants. International Journal of Surface Science and Engineering, 2018, 12, 207.	0.4	0
74	Surface integrity analysis of abrasive water jet-cut surfaces of friction stir welded joints. International Journal of Advanced Manufacturing Technology, 2017, 88, 1687-1701.	1.5	33
75	Surface integrity of Mg-based nanocomposite produced by Abrasive Water Jet Machining (AWJM). Materials and Manufacturing Processes, 2017, 32, 1707-1714.	2.7	28
76	Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques. International Journal of Advanced Manufacturing Technology, 2017, 93, 433-443.	1.5	51
77	Fiber laser cutting of CFRP composites and process optimization through response surface methodology. Materials and Manufacturing Processes, 2017, 32, 1612-1621.	2.7	76
78	Fatigue life of machined components. Advances in Manufacturing, 2017, 5, 59-76.	3.2	39
79	Application of Gold(III) Acetate as a New Precursor for the Synthesis of Gold Nanoparticles in PEG Through Ultrasonic Spray Pyrolysis. Journal of Cluster Science, 2017, 28, 1647-1665.	1.7	21
80	Contribution of machining to the fatigue behaviour of metal matrix composites (MMCs) of varying reinforcement size. International Journal of Fatigue, 2017, 102, 9-17.	2.8	27
81	Investigation into Performance of SiO <sub>2</sub> Nanoparticle Based Cutting Fluid in Machining Process. Materials Today: Proceedings, 2017, 4, 133-141.	0.9	31
82	Surface integrity in tangential turning of hybrid MMC A359/B4C/Al <sub>2</sub> O <sub>3</sub> by abrasive waterjet. Journal of Manufacturing Processes, 2017, 28, 11-20.	2.8	43
83	Joining of carbon fibre reinforced polymer (CFRP) composites and aluminium alloys – A review. Composites Part A: Applied Science and Manufacturing, 2017, 101, 1-29.	3.8	418
84	Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning. Journal of Cleaner Production, 2017, 162, 830-845.	4.6	170
85	Application of Lean Six Sigma for cost-optimised solution of a field quality problem: A case study. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 713-729.	1.5	13
86	Novel uses of alumina-MoS <sub>2</sub> hybrid nanoparticle enriched cutting fluid in hard turning of AISI 304 steel. Journal of Manufacturing Processes, 2017, 30, 467-482.	2.8	101
87	Studies on Non-traditional Machining of Metal Matrix Composites. Materials Today: Proceedings, 2017, 4, 8226-8239.	0.9	10
88	Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids. Materials Today: Proceedings, 2017, 4, 8587-8596.	0.9	31
89	Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4677-4717.	0.8	45
90	Pulse current co-deposition of Ni-WS <sub>2</sub> nano-composite film for solid lubrication. Materials and Manufacturing Processes, 2017, 32, 365-372.	2.7	16

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91	Application of soft computing techniques for cell formation problems: A review. , 2017, , .		0
92	Modeling Lean implementation for manufacturing sector. Journal of Modelling in Management, 2016, 11, 405-426.	1.1	46
93	Effects of Minimum Quantity Lubrication (MQL) in machining processes using conventional and nanofluid based cutting fluids: A comprehensive review. Journal of Cleaner Production, 2016, 127, 1-18.	4.6	398
94	Feasibility Study of Friction Surfaced Coatings over Non-ferrous Substrates. Procedia Engineering, 2016, 149, 465-471.	1.2	12
95	Effect of Size, Content and Shape of Reinforcements on the Behavior of Metal Matrix Composites (MMCs) Under Tension. Journal of Materials Engineering and Performance, 2016, 25, 4444-4459.	1.2	45
96	Process excellence in IT sector in an emerging economic scenario. , 2016, , .		2
97	Tribo-mechanical characterization of spark plasma sintered chopped carbon fibre reinforced silicon carbide composites. Ceramics International, 2016, 42, 18283-18288.	2.3	15
98	Empirical assessment of the causal relationships among lean criteria using DEMATEL method. Benchmarking, 2016, 23, 1834-1859.	2.9	35
99	Tribological behaviour and characterisation of Ni-WS <sub>2</sub> composite coating. International Journal of Surface Science and Engineering, 2016, 10, 240.	0.4	7
100	Potential of Using Water Jet Peening as a Surface Treatment Process for Welded Joints. Procedia Engineering, 2016, 149, 472-480.	1.2	50
101	Characterization of TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Nanoparticle based Cutting Fluids. Materials Today: Proceedings, 2016, 3, 1890-1898.	0.9	24
102	Characterization and experimental investigation of Al <sub>2</sub> O <sub>3</sub> nanoparticle based cutting fluid in turning of AISI 1040 steel under minimum quantity lubrication (MQL). Materials Today: Proceedings, 2016, 3, 1899-1906.	0.9	88
103	Tribological Investigation of TiO <sub>2</sub> Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL). Materials Today: Proceedings, 2016, 3, 2155-2162.	0.9	69
104	Rheological behaviour of nanofluids: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 779-791.	8.2	258
105	Modeling and Optimization of Machining Nimonic C-263 Superalloy using Multicut Strategy in WEDM. Materials and Manufacturing Processes, 2016, 31, 860-868.	2.7	90
106	Impact of lean practices on performance measures in context to Indian machine tool industry. Journal of Manufacturing Technology Management, 2015, 26, 1218-1242.	3.3	66
107	An interpretive hierarchical model for lean implementation in machine tool sector. International Journal of Productivity and Quality Management, 2015, 15, 381.	0.1	12
108	Progress of Nanofluid Application in Machining: A Review. Materials and Manufacturing Processes, 2015, 30, 813-828.	2.7	162



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109	Mechanism of Nanoparticles Functioning and Effects in Machining Processes: A Review. Materials Today: Proceedings, 2015, 2, 3539-3544.	0.9	41
110	Improved Machining Performance with Nanoparticle Enriched Cutting Fluids under Minimum Quantity Lubrication (MQL) Technique: A Review. Materials Today: Proceedings, 2015, 2, 3545-3551.	0.9	38
111	Current Trends in Electric Discharge Machining Using Micro and Nano Powder Materials- A Review. Materials Today: Proceedings, 2015, 2, 3302-3307.	0.9	25
112	State of art in wire electrical discharge machining process and performance. International Journal of Machining and Machinability of Materials, 2014, 16, 1.	0.1	34
113	Current status, enablers & barriers of implementing cellular manufacturing system in Indian industries. Advances in Manufacturing, 2013, 1, 346-356.	3.2	11
114	Dynamic cellular manufacturing design and its sensitivity analysis. International Journal of Applied Management Science, 2012, 4, 239.	0.1	0
115	Cell formation considering real-life production parameters. International Journal of Manufacturing Technology and Management, 2010, 20, 197.	0.1	4
116	Ex-CLASS: Extended Cell formation and LAYOUT Selection considering production parameters with Sequence data. International Journal of Product Development, 2010, 10, 180.	0.2	6
117	Design of flexible manufacturing cell considering uncertain product mix requirement. International Journal of Agile Systems and Management, 2008, 3, 37.	0.6	5
118	Experimental investigation on material removal rate, kerf width, surface roughness and the dimensional accuracy the accuracy of hole in Inconel 718 using wire electric discharge. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210960.	1.4	5