Alokesh Pramanik

List of Publications by Year
in descending order

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134	4,713	109137	118652
papers	citations	35 h-index	62 g-index

135	135	135	2986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Use of palm olein as cutting fluid during turning of mild steel. Australian Journal of Mechanical Engineering, 2023, 21, 192-202.	1.5	6
2	Investigations on the tribological behaviour, toxicity, and biodegradability of kapok oil bio-lubricant blended with (SAE20W40) mineral oil. Biomass Conversion and Biorefinery, 2023, 13, 3669-3681.	2.9	10
3	Application of coolants during tool-based machining â€“ A review. Ain Shams Engineering Journal, 2023, 14, 101830.	3.5	34
4	A study of spot weld pull-out failure (PF) mechanism under different loading conditions for stainless steel and mild steel joints. Australian Journal of Mechanical Engineering, 2022, 20, 603-616.	1.5	2
5	Understanding the Micro-Mechanical Behaviour of Recast Layer Formed during WEDM of Titanium Alloy. Metals, 2022, 12, 188.	1.0	9
6	Real-Time Comprehensive Energy Analysis of the LHD 811MK-V Machine with Mathematical Model Validation and Empirical Study of Overheating: An Experimental Approach. Arabian Journal for Science and Engineering, 2022, 47, 9043-9059.	1.7	5
7	Tribology in (abrasive) water jet machining: A review. , 2022, , 113-125.		0
8	Sustainability in drilling of aluminum alloy. Cleaner Materials, 2022, 3, 100048.	1.9	6
9	Corrigendum to â€œprocessing of Ti50Nb50â^'xHAx composites by rapid microwave sintering technique for biomedical applicationsâ€•[J Mater Res Technol 9 (1) (2020) 242â€“252]. Journal of Materials Research and Technology, 2022, 18, 5455.	2.6	0
10	A critical review on additive manufacturing of Ti-6Al-4V alloy: microstructure and mechanical properties. Journal of Materials Research and Technology, 2022, 18, 4641-4661.	2.6	131
11	Material recovery and recycling of waste tyres-A review. Cleaner Materials, 2022, 5, 100115.	1.9	28
12	Experimental studies on viscosity, thermal and tribological properties of vegetable oil (kapok oil) with boric acid as an additive. Micro and Nano Letters, 2021, 16, 290-298.	0.6	8
13	Investigating the Efficacy of Adhesive Tape for Drilling Carbon Fibre Reinforced Polymers. Materials, 2021, 14, 1699.	1.3	6
14	A Review on Mechanical Properties of Natural Fibre Reinforced Polymer Composites under Various Strain Rates. Journal of Composites Science, 2021, 5, 130.	1.4	24
15	Drilling of titanium alloy (Ti6Al4V) â€“ a review. Machining Science and Technology, 2021, 25, 637-702.	1.4	26
16	Workability and Flexural Properties of Fibre-Reinforced Geopolymer Using Different Mono and Hybrid Fibres. Materials, 2021, 14, 4447.	1.3	12
17	Recast Layer Formation during Wire Electrical Discharge Machining of Titanium (Ti-Al6-V4) Alloy. Journal of Materials Engineering and Performance, 2021, 30, 8926-8935.	1.2	21
18	Surface Topography Analysis of Mg-Based Composites with Different Nanoparticle Contents Disintegrated Using Abrasive Water Jet. Materials, 2021, 14, 5471.	1.3	5

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19	Assessment of Dimensional Stability, Biodegradability, and Fracture Energy of Bio-Composites Reinforced with Novel Pine Cone. Polymers, 2021, 13, 3260.	2.0	33
20	Micro-mechanical characterization of superficial layer synthesized by electric discharge machining process. Materials Letters, 2021, 305, 130769.	1.3	11
21	Effect of Temperature on the Wear Behaviour of CrN Coating Deposited by Physical Vapour Deposition. Lecture Notes on Multidisciplinary Industrial Engineering, 2021, , 513-522.	0.4	0
22	In-vitro tribological study and submodeling finite element technique in analyzing wear of zirconia toughened alumina against alumina with bio-lubricants for hip implants. Medical Engineering and Physics, 2021, 98, 83-90.	0.8	5
23	Single-Walled Carbon Nanotube-Enhanced Bagasse-Epoxy Hybrid Composites under Varied Low Tensile Strain Rates. Applied Mechanics, 2021, 2, 863-877.	0.7	1
24	Mechanical Properties of Titanium Diboride Particles Reinforced Aluminum Alloy Matrix Composites: A Comprehensive Review. Advances in Materials Science and Engineering, 2021, 2021, 1-18.	1.0	10
25	Preheating and thermal behaviour of a rotating cylindrical workpiece in laser-assisted machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 559-570.	1.5	9
26	Optimization of Accuracy and Surface Finish of Drilled Holes in 350 Mild Steel. Springer Series in Advanced Manufacturing, 2020, , 65-90.	0.2	0
27	Effect of abrasive particle size on tribological behavior of elastomers. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 373-385.	1.0	4
28	Machining performance of Inconel 718 using graphene nanofluid in EDM. Materials and Manufacturing Processes, 2020, 35, 33-42.	2.7	54
29	A novel approach towards sustainable electrical discharge machining of metal matrix composites (MMCs). International Journal of Advanced Manufacturing Technology, 2020, 106, 1477-1486.	1.5	14
30	Developments of non-conventional drilling methodsâ€"a review. International Journal of Advanced Manufacturing Technology, 2020, 106, 2133-2166.	1.5	23
31	Tribological Properties of Chromium Nitride on the Cylinder Liner under the Influence of High Temperature. Materials, 2020, 13, 4497.	1.3	6
32	Magneto-Rheological Fluid Assisted Abrasive Nanofinishing of Î²-Phase Ti-Nb-Ta-Zr Alloy: Parametric Appraisal and Corrosion Analysis. Materials, 2020, 13, 5156.	1.3	18
33	Effect of peak current and peak voltage on machined surface morphology during WEDM of TiNiCu shape memory alloys. Journal of Mechanical Science and Technology, 2020, 34, 3957-3961.	0.7	10
34	Strain Rate Sensitivity of Epoxy Composites Reinforced with Varied Sizes of Bagasse Particles. Journal of Composites Science, 2020, 4, 110.	1.4	4
35	Contact Stress and Wear Analysis of Zirconia Against Alumina for Normal and Physically Demanding Loads in Hip Prosthesis. Journal of Bionic Engineering, 2020, 17, 1045-1058.	2.7	7
36	Burr formation and its treatmentsâ€"a review. International Journal of Advanced Manufacturing Technology, 2020, 107, 2189-2210.	1.5	57

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37	Finite element submodeling technique to analyze the contact pressure and wear of hard bearing couples in hip prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 422-431.	0.9	23
38	Stress in the interfaces of metal matrix composites (MMCs) in thermal and tensile loading. , 2020, , 455-471.		0
39	Machining parameter optimization in shear thickening polishing of gear surfaces. Journal of Materials Research and Technology, 2020, 9, 5112-5126.	2.6	71
40	Microstructural and Mechanical Properties of AA6061 Aluminium Alloy Reinforced with Nano-SiC Particles Using FSP. Lecture Notes in Mechanical Engineering, 2020, , 195-204.	0.3	4
41	Methods and variables in Electrical discharge machining of titanium alloy â€“ A review. Heliyon, 2020, 6, e05554.	1.4	43
42	Wear of Rubbers and Its Control in Conveyer Belt System. Engineering Materials, 2020, , 53-79.	0.3	1
43	Optimization of turning parameters for AlSi10Mg/SCBA/SiC hybrid metal matrix composite using response surface methodology. Materials Research Express, 2019, 6, 106553.	0.8	8
44	Investigations on tribo-mechanical behaviour of Al-Si10-Mg/sugarcane bagasse ash/SiC hybrid composites. China Foundry, 2019, 16, 277-284.	0.5	18
45	Effect of wire electric discharge machining (EDM) parameters on fatigue life of Ti-6Al-4V alloy. International Journal of Fatigue, 2019, 128, 105186.	2.8	29
46	Deformation and strengthening of SiC reinforced Al-MMCs during in-situ micro-pillar compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138141.	2.6	79
47	Investigation of machining characteristics of hard-to-machine Ti-6Al-4V-ELI alloy for biomedical applications. Journal of Materials Research and Technology, 2019, 8, 4849-4862.	2.6	76
48	Tool Condition Monitoring While Using Vegetable Based Cutting Fluids During Milling of Inconel 625. Journal of Advanced Manufacturing Systems, 2019, 18, 563-581.	0.4	44
49	Designing and analysis of the femoral neck for an artificial hip joint prosthesis. , 2019, , 47-65.		4
50	Optimizing dimensional accuracy of titanium alloy features produced by wire electrical discharge machining. Materials and Manufacturing Processes, 2019, 34, 1083-1090.	2.7	74
51	Understanding the wire electrical discharge machining of Ti6Al4V alloy. Heliyon, 2019, 5, e01473.	1.4	85
52	Burr formation during drilling of mild steel at different machining conditions. Materials and Manufacturing Processes, 2019, 34, 726-735.	2.7	20
53	Surface Modification of Ti-6Al-4V Alloy by Electrical Discharge Coating Process Using Partially Sintered Ti-Nb Electrode. Materials, 2019, 12, 1006.	1.3	97
54	Study of effective parameters on wear behavior of rubbers based on statistical methods. Polymers for Advanced Technologies, 2019, 30, 1415-1426.	1.6	10

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55	Elastomersâ€™ wear: Comparison of theory with experiment. Tribology International, 2019, 135, 46-54.	3.0	16
56	Wear of chromium nitride coating under high loads and speeds. International Journal of Surface Science and Engineering, 2019, 13, 263.	0.4	4
57	Effect of lubrication on the wear behaviour of CrN coating deposited by PVD process. International Journal of Surface Science and Engineering, 2019, 13, 60.	0.4	14
58	Learning Enhancement of Project-Based Unit in Mechanical Engineering Undergraduate Course. , 2019, , 73-84.		2
59	Optimization of material formulation and processing parameters in relation to mechanical properties of bioepoxy/clay nanocomposites using Taguchi design of experiments. Journal of Applied Polymer Science, 2018, 135, 45769.	1.3	11
60	Residual stress generation in metal matrix composites after cooling. Materials Science and Technology, 2018, 34, 1388-1400.	0.8	14
61	Fracture and fatigue life of Al-based MMCs machined at different conditions. Engineering Fracture Mechanics, 2018, 191, 33-45.	2.0	23
62	Additive manufacturing of mechanical testing samples based on virgin poly (lactic acid) (PLA) and PLA/wood fibre composites. Advances in Manufacturing, 2018, 6, 71-82.	3.2	57
63	Comparative Assessment and Merit Appraisal of Thermally Assisted Machining Techniques for Improving Machinability of Titanium Alloys. Materials Forming, Machining and Tribology, 2018, , 297-331.	0.7	1
64	Processing of duplex stainless steel by WEDM. Materials and Manufacturing Processes, 2018, 33, 1559-1567.	2.7	25
65	Effect of machining parameters on deformation behaviour of Al-based metal matrix composites under tension. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 217-225.	1.5	12
66	Accuracy and finish during wire electric discharge machining of metal matrix composites for different reinforcement size and machining conditions. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1068-1078.	1.5	31
67	Wear behavior of chromium nitride coating in dry condition at lower sliding velocity and load. International Journal of Advanced Manufacturing Technology, 2018, 96, 1665-1675.	1.5	26
68	A Review Paper on Machining of Metal Matrix Composite and Optimizing Methods used in Electrical Discharge Machining. Materials Today: Proceedings, 2018, 5, 24428-24438.	0.9	4
69	Evaluating Hole Quality in Drilling of Al 6061 Alloys. Materials, 2018, 11, 2443.	1.3	80
70	Manufacturing, Characterisation and Properties of Advanced Nanocomposites. Journal of Composites Science, 2018, 2, 46.	1.4	3
71	Sustainability in wire electrical discharge machining of titanium alloy: Understanding wire rupture. Journal of Cleaner Production, 2018, 198, 472-479.	4.6	51
72	Milling of Nanoparticles Reinforced Al-Based Metal Matrix Composites. Journal of Composites Science, 2018, 2, 13.	1.4	16

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73	Development of Pb-Free Nanocomposite Solder Alloys. Journal of Composites Science, 2018, 2, 28.	1.4	5
74	Accuracy of duplex stainless steel feature generated by electrical discharge machining (EDM). Measurement: Journal of the International Measurement Confederation, 2018, 130, 137-144.	2.5	23
75	Identification of preferred combination of factors in manufacturing bioepoxy/clay nanocomposites. Advanced Composite Materials, 2018, 27, 511-530.	1.0	3
76	Effect of machining parameters on the surface finish of a metal matrix composite under dry cutting conditions. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 913-923.	1.5	26
77	Duplex surface treatment of steels by nitriding and chromizing. Australian Journal of Mechanical Engineering, 2017, 15, 55-72.	1.5	18
78	Surface integrity of Mg-based nanocomposite produced by Abrasive Water Jet Machining (AWJM). Materials and Manufacturing Processes, 2017, 32, 1707-1714.	2.7	28
79	Stagnation zone during the turning of Duplex SAF 2205 stainless steels alloy. Materials and Manufacturing Processes, 2017, 32, 1486-1489.	2.7	17
80	Fatigue life of machined components. Advances in Manufacturing, 2017, 5, 59-76.	3.2	39
81	Developments of rubber material wear in conveyer belt system. Tribology International, 2017, 111, 148-158.	3.0	49
82	Particle fracture and debonding during orthogonal machining of metal matrix composites. Advances in Manufacturing, 2017, 5, 77-82.	3.2	16
83	Thermal-Assisted Machining of Titanium Alloys. Materials Forming, Machining and Tribology, 2017, , 49-76.	0.7	13
84	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
85	Joining of carbon fibre reinforced polymer (CFRP) composites and aluminium alloys â€“ A review. Composites Part A: Applied Science and Manufacturing, 2017, 101, 1-29.	3.8	418
86	Comparative study between wear of uncoated and TiAlN-coated carbide tools in milling of Ti6Al4V. Advances in Manufacturing, 2017, 5, 83-91.	3.2	21
87	Tool wear and surface quality of metal matrix composites due to machining: A review. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 739-752.	1.5	42
88	Recent Issues in Materials and Manufacturing. Advances in Mechanical Engineering, 2017, 9, 168781401774310.	0.8	0
89	Evaluating Mechanical Properties and Failure Mechanisms of Fused Deposition Modeling Acrylonitrile Butadiene Styrene Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	1.3	99
90	Study of heat-affected zone and mechanical properties of Nd-YAG laser welding process of thin titanium alloy sheet. Natural Resources & Engineering, 2016, 1, 51-58.	0.3	7

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91	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
92	Comparison of Design of Experiments via Traditional and Taguchi Method. Journal of Advanced Manufacturing Systems, 2016, 15, 151-160.	0.4	35
93	Investigation on the Behavior of Austenite and Ferrite Phases at Stagnation Region in the Turning of Duplex Stainless Steel Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3165-3177.	1.1	17
94	The effects of material formulation and manufacturing process on mechanical and thermal properties of epoxy/clay nanocomposites. International Journal of Advanced Manufacturing Technology, 2016, 87, 1999-2012.	1.5	18
95	Wire EDM Mechanism of MMCs with the Variation of Reinforced Particle Size. Materials and Manufacturing Processes, 2016, 31, 1700-1708.	2.7	33
96	Effects of reinforcement on wear resistance of aluminum matrix composites. Transactions of Nonferrous Metals Society of China, 2016, 26, 348-358.	1.7	136
97	Degradation of wire electrode during electrical discharge machining of metal matrix composites. Wear, 2016, 346-347, 124-131.	1.5	38
98	Electrical Discharge Machining of MMCs Reinforced with Very Small Particles. Materials and Manufacturing Processes, 2016, 31, 397-404.	2.7	35
99	Effect of reinforced particle size on wire EDM of MMCs. International Journal of Machining and Machinability of Materials, 2015, 17, 139.	0.1	24
100	Machining of Titanium Alloy(Ti-6Al-4V)â€"Theory to Application. Machining Science and Technology, 2015, 19, 1-49.	1.4	133
101	Challenges and recent developments on nanoparticle-reinforced metalÂmatrix composites. , 2015, , 349-367.		11
102	Chip formation mechanism and machinability of wrought duplex stainless steel alloys. International Journal of Advanced Manufacturing Technology, 2015, 80, 1127-1135.	1.5	36
103	Weldability of Duplex Stainless Steel. Materials and Manufacturing Processes, 2015, 30, 1053-1068.	2.7	48
104	Electrical discharge machining of 6061 aluminium alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 2866-2874.	1.7	57
105	Effects of Insert Geometry and Feed Rate on Quality Characteristics of Turned Parts. Journal of Advanced Manufacturing Systems, 2015, 14, 149-166.	0.4	9
106	Developments in Machining of Stacked Materials Made of CFRP and Titanium/Aluminum Alloys. Machining Science and Technology, 2014, 18, 485-508.	1.4	40
107	Problems and solutions in machining of titanium alloys. International Journal of Advanced Manufacturing Technology, 2014, 70, 919-928.	1.5	322
108	Developments in the non-traditional machining of particle reinforced metal matrix composites. International Journal of Machine Tools and Manufacture, 2014, 86, 44-61.	6.2	128

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109	Introduction of a New Software Package in Teaching Design Methodology for Material Selection. International Journal of Information and Education Technology, 2014, 4, 360-363.	0.9	3
110	Effect of cooling methods on dimensional accuracy and surface finish of a turned titanium part. International Journal of Advanced Manufacturing Technology, 2013, 69, 2711-2722.	1.5	32
111	Machinability study of first generation duplex (2205), second generation duplex (2507) and austenite stainless steel during drilling process. Wear, 2013, 304, 20-28.	1.5	86
112	Ductile Mode Turning of Brittle Materials and its Practical Aspects. Advanced Materials Research, 2013, 651, 350-354.	0.3	1
113	Off-Line Feed Rate Scheduling Based on a Mechanistic Cutting Force on Discrete Segments during End Milling. Advanced Materials Research, 2013, 774-776, 1174-1180.	0.3	0
114	Ultra-Precision Machinability and Properties of Electroless-Nickel. Advanced Materials Research, 2013, 651, 344-349.	0.3	3
115	Residual stresses in silicon-on-sapphire thin film systems. International Journal of Solids and Structures, 2011, 48, 1290-1300.	1.3	13
116	Ultraprecision turning of electroless nickel: effects of crystal orientation and origin of diamond tools. International Journal of Advanced Manufacturing Technology, 2009, 43, 681-689.	1.5	15
117	Deformation mechanisms of MMCs under indentation. Composites Science and Technology, 2008, 68, 1304-1312.	3.8	50
118	Machining of metal matrix composites: Effect of ceramic particles on residual stress, surface roughness and chip formation. International Journal of Machine Tools and Manufacture, 2008, 48, 1613-1625.	6.2	200
119	Ultra-precision turning of electroless-nickel: Effect of phosphorus contents, depth-of-cut and rake angle. Journal of Materials Processing Technology, 2008, 208, 400-408.	3.1	32
120	Machining of Particulate-Reinforced Metal Matrix Composites. , 2008, , 127-166.		9
121	Micro-Indentation of Metal Matrix Composite - An FEM Investigation. Key Engineering Materials, 2007, 340-341, 563-570.	0.4	24
122	An FEM investigation into the behavior of metal matrix composites: Toolâ€“particle interaction during orthogonal cutting. International Journal of Machine Tools and Manufacture, 2007, 47, 1497-1506.	6.2	186
123	Prediction of cutting forces in machining of metal matrix composites. International Journal of Machine Tools and Manufacture, 2006, 46, 1795-1803.	6.2	193
124	Cutting performance of diamond tools during ultra-precision turning of electroless-nickel plated die materials. Journal of Materials Processing Technology, 2003, 140, 308-313.	3.1	59
125	A Briefing on the Manufacture of Hip Joint Prostheses. Advanced Materials Research, 0, 76-78, 212-216.	0.3	18
126	Efficient Machining of Artificial Hip Joint Components. Advanced Materials Research, 0, 97-101, 2269-2272.	0.3	6

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127	Production, Characterization and Application of Silicon-on-Sapphire Wafers. Key Engineering Materials, 0, 443, 567-572.	0.4	4
128	Fabrication of Nano-Particle Reinforced Metal Matrix Composites. Advanced Materials Research, 0, 651, 289-294.	0.3	17
129	Machining and Tool Wear Mechanisms during Machining Titanium Alloys. Advanced Materials Research, 0, 651, 338-343.	0.3	46
130	Failure Mechanisms of Nanoparticle Reinforced Metal Matrix Composite. Advanced Materials Research, 0, 774-776, 548-551.	0.3	14
131	Optimization and Prediction of Machining Responses Using Response Surface Methodology and Adaptive Neural Network by Wire Electric Discharge Machining of Alloy-X. Materials Science Forum, 0, 1026, 28-38.	0.3	3
132	EFFECT OF LOADS AND BIO-LUBRICANTS ON TRIBOLOGICAL STUDY OF ZIRCONIA AND ZIRCONIA TOUGHENED ALUMINA AGAINST Ti6Al4V FOR HIP PROSTHESIS. Surface Review and Letters, 0, , 2141006.	0.5	0
133	Module-Based Teaching of Mechanical Design. Advances in Higher Education and Professional Development Book Series, 0, , 60-68.	0.1	2
134	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