Sumanta Panda

List of Publications by Year
in descending order

38 papers	382 citations	933447 10 h-index	839539 18 g-index
42 all docs	42 docs citations	42 times ranked	352 citing authors

#	Article	IF	Citations
1	Analysis of properties and estimation of optimum blending ratio of blended mahua biodiesel. Engineering Science and Technology, an International Journal, 2017, 20, 511-517.	3.2	71
2	Determination of optimum parameters with multi-performance characteristics in laser drilling—A grey relational analysis approach. International Journal of Advanced Manufacturing Technology, 2011, 54, 957-967.	3.0	63
3	A comparative study of stability characteristics of mahua and jatropha biodiesel and their blends. Journal of King Saud University, Engineering Sciences, 2019, 31, 184-190.	2.0	32
4	Laser Beam Micro Drilling – a Review. Lasers in Manufacturing and Materials Processing, 2018, 5, 366-394.	2.2	21
5	Comparative study on optimum design of rolling element bearing. Tribology International, 2015, 92, 595-604.	5.9	18
6	A comparative study of meta-heuristics for local path planning of a mobile robot. Engineering Optimization, 2022, 54, 134-152.	2.6	18
7	Laser micro drilling of 316L stainless steel orthopedic implant: A study. Journal of Manufacturing Processes, 2020, 52, 220-234.	5.9	16
8	Multi objective optimization of EDM process parameters using fuzzy TOPSIS method. , 2015, , .		14
9	Prediction Of Surface Quality Using Chip Morphology With Nodal Temperature Signatures In Hard Turning Of AISI D3 Steel. Materials Today: Proceedings, 2018, 5, 12368-12375.	1.8	13
10	An approach to weight optimization of a spur gear. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 189-202.	1.8	12
11	Revolute manipulator workspace optimization: A comparative study. Applied Soft Computing Journal, 2013, 13, 899-910.	7.2	11
12	Optimization of Multiple Response Characteristics of EDM Process Using Taguchi-Based Grey Relational Analysis and Modified PSO. Journal of Advanced Manufacturing Systems, 2015, 14, 123-148.	1.0	10
13	Multi Characteristics Optimization of Laser Drilling Process Parameter Using Fuzzy-TOPSIS Method. Materials Today: Proceedings, 2017, 4, 8538-8547.	1.8	10
14	WEDM microdrilling of 316‰L stainless steel orthopedic implant. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 3416-3435.	2.1	10
15	Multi Characteristics Optimization of Laser Drilling Process Parameter Using Grey Fuzzy Reasoning Method. Materials Today: Proceedings, 2015, 2, 1518-1532.	1.8	8
16	A multi objective optimum design approach for rolling element bearing. International Journal on Interactive Design and Manufacturing, 2018, 12, 1095-1108.	2.2	8
17	Revolute manipulator workspace optimization using a modified bacteria foraging algorithm: A comparative study. Engineering Optimization, 2014, 46, 181-199.	2.6	5
18	Dry turning of AISI D3 steel using a mixed ceramic insert: A study. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6698-6712.	2.1	5

#	ARTICLE	IF	CITATIONS
19	An approach for design optimization of 3R manipulator using Adaptive Cuckoo Search algorithm. Mechanics Based Design of Structures and Machines, 2020, 48, 773-798.	4.7	5
20	A comprehensive study on multi-objective design optimization of spur gear. Mechanics Based Design of Structures and Machines, 2023, 51, 5272-5298.	4.7	5
21	Modeling and Optimization of Rolling Process: A Multi-Objective Approach. Journal of Advanced Manufacturing Systems, 2020, 19, 343-364.	1.0	3
22	Optimum Design of Profile Modified Spur Gear Using PSO. Lecture Notes in Networks and Systems, 2021, , 177-187.	0.7	3
23	An Artificial Neural Network Model for a Diesel Engine Fuelled with Mahua Biodiesel. Advances in Intelligent Systems and Computing, 2017, , 193-201.	0.6	3
24	Performance Analysis of Hybrid Ceramic Insert in Dry Turning of Hardened Tool Steel. Arabian Journal for Science and Engineering, 2022, 47, 15455-15476.	3.0	3
25	A multi-objective approach for local path planning of autonomous mobile robot based on metaheuristics. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	3
26	Test-Rigs for Dynamically Loaded Journal Bearing: A Study. , 2008, , .		2
27	An appropriate tool for optimizing the workspace of 3R robot manipulator. , 2009, , .		2
28	A Study on Design Optimization of Spur Gear Set. Advances in Intelligent Systems and Computing, 2021, , 629-641.	0.6	2
29	A Multi-Objective Optimum Design of Dynamically Loaded Journal Bearing for a Prescribed Ï€ Extent Film. , 0, , .		1
30	Process Parameter Optimization of Hydrostatic Extrusion Using Metaheuristic. Journal of Advanced Manufacturing Systems, 2018, 17, 487-504.	1.0	1
31	Particle Swarm Optimization and Machinability Aspects during Turning of Hardened D3 Steel. Journal of Advanced Manufacturing Systems, 2020, 19, 641-662.	1.0	1
32	Analysis and prediction of tool wear in dry turning of hardened D3 steel using hybrid insert: A novel wear map approach. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542210762.	2.4	1
33	An appropriate formulation for workspace cross section area of 3R robot manipulator. , 2009, , .		0
34	Optimization for Workspace Volume of 3R Robot Manipulator Using Modified Differential Evolution. Lecture Notes in Computer Science, 2010, , 111-118.	1.3	0
35	ROBOT WORKSPACE OPTIMIZATION USING A NOVEL MODIFIED DIFFERENTIAL EVOLUTIONARY TECHNIQUE. International Journal of Computational Methods, 2012, 09, 1250034.	1.3	0
36	A Multiobjective Ideal Design of Rolling Element Bearing Using Metaheuristics. Smart Innovation, Systems and Technologies, 2018, , 21-31.	0.6	0

#	ARTICLE	IF	CITATIONS
37	A study on mechanical and tribological behaviour of alumina filled AA5754 composites using Taguchi experimental design. Materials Today: Proceedings, 2020, 33, 5130-5135.	1.8	0
38	A Multi-objective Approach to Study the Effects of Ball Race Conformity on Optimum Design of Rolling Element Bearing Using Metaheuristics. Advances in Intelligent Systems and Computing, 2020, , 35-47.	0.6	0