

Vimal Kumar Pathak

List of Publications by Year in descending order

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41
papers

469
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686830

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42
all docs

42
docs citations

42
times ranked

313
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel hybrid TOPSIS-PSI approach for material selection in marine applications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	0.8	38
2	Modeling and optimization of fused deposition modeling (FDM) process through printing PLA implants using adaptive neuro-fuzzy inference system (ANFIS) model and whale optimization algorithm. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	29
3	Optimization of morphological process parameters in contactless laser scanning system using modified particle swarm algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 109, 27-35.	2.5	28
4	An adaptive neuro-fuzzy and NSGA-II-based hybrid approach for modelling and multi-objective optimization of WEDM quality characteristics during machining titanium alloy. <i>Neural Computing and Applications</i> , 2021, 33, 16659-16674.	3.2	28
5	Dry sliding wear characteristics evaluation and prediction of vacuum casted marble dust (MD) reinforced ZA-27 alloy composites using hybrid improved bat algorithm and ANN. <i>Materials Today Communications</i> , 2020, 25, 101615.	0.9	27
6	A novel hybridization of artificial neural network and moth-flame optimization (ANN-MFO) for multi-objective optimization in magnetic abrasive finishing of aluminium 6060. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	25
7	Optimal Material Selection for Ship Body Based on Fabricated Zirconium Dioxide/ Silicon Carbide Filled Aluminium Hybrid Metal Alloy Composites Using Novel Fuzzy Based Preference Selection Index. <i>Silicon</i> , 2021, 13, 2545-2562.	1.8	24
8	Characterization of mechanical and tribological properties of graphite and alumina reinforced zinc alloy (ZA-27) hybrid metal matrix composites. <i>Journal of Composite Materials</i> , 2020, 54, 4889-4901.	1.2	23
9	A modified algorithm of Particle Swarm Optimization for form error evaluation. <i>TM Technisches Messen</i> , 2017, 84, 272-292.	0.3	21
10	Framework for Automated GD&T Inspection Using 3D Scanner. <i>Journal of the Institution of Engineers (India): Series C</i> , 2018, 99, 197-205.	0.7	20
11	A novel upgraded bat algorithm based on cuckoo search and Sugeno inertia weight for large scale and constrained engineering design optimization problems. <i>Engineering With Computers</i> , 2022, 38, 1731-1758.	3.5	20
12	Form Error Evaluation of Noncontact Scan Data Using Constriction Factor Particle Swarm Optimization. <i>Journal of Advanced Manufacturing Systems</i> , 2017, 16, 205-226.	0.4	17
13	Optimization of three-dimensional scanning process conditions using preference selection index and metaheuristic method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 146, 653-667.	2.5	16
14	Experimental investigation for minimizing circularity and surface roughness under nano graphene mixed dielectric EDM exercising fuzzy-ANFIS approach. <i>International Journal on Interactive Design and Manufacturing</i> , 2022, 16, 1135-1154.	1.3	16
15	A critical review on tribological properties, thermal behavior, and different applications of industrial waste reinforcement for composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 684-706.	0.7	13
16	Effective Form Error Assessment Using Improved Particle Swarm Optimization. <i>Mapan - Journal of Metrology Society of India</i> , 2017, 32, 279-292.	1.0	11
17	Evaluating Geometric Characteristics of Planar Surfaces using Improved Particle Swarm Optimization. <i>Measurement Science Review</i> , 2017, 17, 187-196.	0.6	11
18	Optimizing parameters in surface reconstruction of transtibial prosthetic socket using central composite design coupled with fuzzy logic-based model. <i>Neural Computing and Applications</i> , 2020, 32, 15597-15613.	3.2	11

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19	Preliminary Evaluation and Wear Properties Optimization of Boron Carbide and Molybdenum Disulphide Reinforced Copper Metal Matrix Composite Using Adaptive Neuro-fuzzy Inference System. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	9
20	Mechanical and corrosion behavior of SiC/Graphite/ZrO ₂ hybrid reinforced aluminum-based composites for marine environment. Surface Topography: Metrology and Properties, 0, , .	0.9	8
21	Assessing the challenges and issues in entry-level additive manufacturing machine. International Journal of Rapid Manufacturing, 2016, 6, 53.	0.5	7
22	Accuracy control of contactless laser sensor system using whale optimization algorithm and moth-flame optimization. TM Technisches Messen, 2017, 84, 734-746.	0.3	7
23	Investigating Alignment Effect on Inspection Accuracy of AM Part Using 3D Scanner. Journal of Advanced Manufacturing Systems, 2017, 16, 157-169.	0.4	7
24	A Comprehensive Review on Computational Techniques for Form Error Evaluation. Archives of Computational Methods in Engineering, 2022, 29, 1199-1228.	6.0	7
25	Best-Worst-Play (BWP): A metaphor-less Optimization Algorithm. Journal of Physics: Conference Series, 2020, 1455, 012007.	0.3	6
26	Design of a Stephenson III six-bar path generating mechanism for index finger rehabilitation device using nature-inspired algorithms. Neural Computing and Applications, 2021, 33, 17315-17329.	3.2	6
27	A VIRTUAL REVERSE ENGINEERING METHODOLOGY FOR ACCURACY CONTROL OF TRANSTIBIAL PROSTHETIC SOCKET. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650037.	0.3	5
28	A Particle Swarm Optimization Approach for Minimizing GD&T Error in Additive Manufactured Parts. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2017, 7, 69-80.	0.3	5
29	Multi-objective optimization and characterization of cylindricity and material removal rate in nanographene mixed dielectric EDM using ANFIS and MOSOA. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	0.8	5
30	Optimized selection of nanohydroxyapatite-filled dental restorative composites formulation for best physico-mechanical, chemical, and thermal properties using hybrid analytical hierarchy process multi-objective optimization on the basis of ratio analysis approach. Polymer Composites, 2021, 42, 3841-3856.	2.3	4
31	Elastic properties of graphene-reinforced aluminum nanocomposite: Effects of temperature, stacked, and perforated graphene. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 1218-1227.	0.7	3
32	Mechanical properties of boron nitride nano-sheet reinforced aluminium nanocomposite: a molecular dynamics study. Molecular Simulation, 2022, 48, 1003-1016.	0.9	3
33	Analyzing problems and optimization of supply chain in different industries using SAW and TOPSIS methods. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012073.	0.3	2
34	Alignment Based Inspection Framework for Additive Manufactured Parts. Lecture Notes in Mechanical Engineering, 2016, , 335-344.	0.3	2
35	Optimization of magnetic field assisted finishing process during nanofinishing of titanium alloy (grade-5) implant using soft computing approaches. International Journal of Modelling and Simulation, 2022, 42, 920-935.	2.3	2
36	An Integrated Reverse Engineering Approach for Accuracy Control of Free-Form Objects. Archive of Mechanical Engineering, 2016, 63, 647-663.	0.7	1

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37	Failure Analysis and Improvement of Defective Clamping Pad During Leak Testing Process Using Kepner-Tregoe Analysis. Journal of Failure Analysis and Prevention, 2020, 20, 1507-1515.	0.5	1
38	A comprehensive survey on the ant lion optimiser, variants and applications. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-52.	1.8	1
39	Preliminary evaluations on development and material selection of high temperature vacuum casted marble dust-reinforced silicon-bronze alloy material for bearing applications. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 131-148.	0.7	0
40	Experimental investigation and multi-objective optimization of multiple mechanical characteristics for chemically treated kenaf fibre reinforced epoxy composite using grey fuzzy logic. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072110429.	0.7	0
41	Prediction of cortical bone mineral apposition rate in response to loading using an adaptive neuro-fuzzy inference system. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 261-280.	0.9	0