Muthumari Chandrasekaran

List of Publications by Year
in descending order

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98	1,192	430442	433756
papers	citations	18	31
		h-index	g-index

98	98	98	1049
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of soft computing techniques in machining performance prediction and optimization: a literature review. International Journal of Advanced Manufacturing Technology, 2010, 46, 445-464.	1.5	296
2	Solving job shop scheduling problems using artificial immune system. International Journal of Advanced Manufacturing Technology, 2006, 31, 580-593.	1.5	51
3	Sustainable machining: an experimental investigation and optimization of machining Inconel 825 with dry and MQL approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	41
4	Study of the interfacial phenomena during friction surfacing of mild steel with tool steel and inconel. Journal of Materials Science, 1998, 33, 2709-2717.	1.7	35
5	Artificial neural network modeling for surface roughness prediction in cylindrical grinding of Al-SiCp metal matrix composites and ANOVA analysis. Advances in Production Engineering and Management, 2014, 9, 59-70.	0.8	34
6	Investigation on welding characteristics of aerospace materials â€“ A review. Materials Today: Proceedings, 2017, 4, 7519-7526.	0.9	34
7	Fabrication and tribological study of AA6061 hybrid metal matrix composites reinforced with SiC/B₄C nanoparticles. Industrial Lubrication and Tribology, 2019, 71, 83-93.	0.6	34
8	Study of the interfacial phenomena during friction surfacing of aluminium with steels. Journal of Materials Science, 1997, 32, 6055-6062.	1.7	33
9	EDM investigation of Al 7075 alloy reinforced with B4C and fly ash nanoparticles and parametric optimization for sustainable production. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	32
10	Machining Investigation on Hybrid Metal Matrix Composites- A Review. Materials Today: Proceedings, 2017, 4, 8167-8175.	0.9	31
11	Experimental investigation and optimization of sustainable performance measures during wire-cut EDM of Ti-6Al-4V alloy employing preference-based TLBO algorithm. Materials and Manufacturing Processes, 2020, 35, 1204-1213.	2.7	30
12	Modeling and optimization of parameters for minimizing surface roughness and tool wear in turning Al/SiCp MMC, using conventional and soft computing techniques. Advances in Production Engineering and Management, 2015, 10, 59-72.	0.8	27
13	Integrated optimization methodology for intelligent machining of inconel 825 and its shop-floor application. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 865-877.	0.8	25
14	Optimization of EDM process in machining micro holes for improvement of hole quality. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1277-1287.	0.8	25
15	Online optimization of multipass machining based on cloud computing. International Journal of Advanced Manufacturing Technology, 2013, 65, 239-250.	1.5	24
16	Development of ANN modelling for estimation of weld strength and integrated optimization for GTAW of Inconel 825 sheets used in aero engine components. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	22
17	Experimental investigation and parametric optimization for minimizing surface roughness during WEDM of Ti6Al4V alloy using modified TLBO algorithm. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	22
18	Comparison of Mechanical properties of AA6061 reinforced with (SiC/B4C) micro/nano ceramic particle reinforcements. Materials Today: Proceedings, 2018, 5, 18110-18119.	0.9	21

#	Article	IF	Citations
19	Experimental study on drilling micro-hole through micro-EDM and optimization of multiple performance characteristics. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	20
20	Optimization of PID Control for High Speed Line Tracking Robots. Procedia Computer Science, 2015, 76, 147-154.	1.2	18
21	Application of Artificial Intelligence Approach in Modeling Surface Quality of Aerospace Alloys in WEDM Process. Procedia Technology, 2016, 25, 1199-1208.	1.1	16
22	Multi-response ANN modelling and analysis on sliding wear behavior of Al7075/B₄C/fly ash hybrid nanocomposites. Materials Research Express, 2019, 6, 0850h4.	0.8	15
23	Electron beam welding of aerospace alloy (Inconel 825): A comparative study of RSM and ANN modeling to predict weld bead area. Optik, 2020, 219, 165206.	1.4	14
24	ANNâ€“PSO Integrated Optimization Methodology for Intelligent Control of MMC Machining. Journal of the Institution of Engineers (India): Series C, 2017, 98, 395-401.	0.7	13
25	Development of Electromyography Signal Signature for Forearm Muscle. Procedia Computer Science, 2015, 76, 229-234.	1.2	12
26	Title is missing!. Journal of Materials Science, 2000, 35, 1589-1596.	1.7	11
27	Use of timed petri net and activity cycle diagram methodologies for modelling tandem AGVs in FMSs and their performance evaluation. International Journal of Computer Integrated Manufacturing, 2001, 14, 399-408.	2.9	11
28	Matrix reinforcement interaction in SiC/316L stainless steel composite. Journal of Materials Science Letters, 2000, 19, 613-615.	0.5	10
29	Title is missing!. Journal of Materials Science, 2000, 35, 1597-1602.	1.7	9
30	Advertisement timeout driven bee's mating approach to maintain fair energy level in sensor networks. Applied Soft Computing Journal, 2011, 11, 4029-4035.	4.1	9
31	Development of an Autonomous Tennis Ball Retriever Robot As an Educational Tool. Procedia Computer Science, 2015, 76, 21-26.	1.2	9
32	Multi Performance Optimization in Wire Cut EDM of Inconel 825 Using Desirability Function Coupled With Analytical Hierarchy Process. Materials Today: Proceedings, 2018, 5, 11531-11547.	0.9	8
33	Performance analysis of efficient data distribution in P2P environment using hybrid clustering techniques. Soft Computing, 2019, 23, 9253-9263.	2.1	8
34	GMAW Investigation of AISI 201 Stainless Steel and Industry Need Optimization Using Genetic Algorithm. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 215-229.	0.4	8
35	Ontology driven bee's foraging approach based self adaptive online recommendation system. Journal of Systems and Software, 2012, 85, 2439-2450.	3.3	7
36	Online optimization of a finish turning process: strategy and experimental validation. International Journal of Advanced Manufacturing Technology, 2014, 75, 783-791.	1.5	7

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37	Processing and Investigation of Tribological Properties of Basalt Epoxy Composites. Materials Today: Proceedings, 2017, 4, 8185-8191.	0.9	7
38	Framework to forecast environment changes by optimized predictive modelling based on rough set and Elman neural network. Soft Computing, 2020, 24, 10467-10480.	2.1	7
39	Performance of weld bead profile during A-TIG welding on nitrogen alloyed stainless steel. Engineering Research Express, 2021, 3, 045024.	0.8	7
40	Optimization of processing parameters for laser alloying of aluminium alloys by X-ray imaging. Journal of Materials Science Letters, 1997, 16, 1109-1112.	0.5	6
41	Multimachine stability analysis using meta-heuristic PSO algorithm for HGTG and SGTG systems. International Journal of Modelling, Identification and Control, 2012, 15, 55.	0.2	6
42	GA based Optimization for the Production of Quality Jobs with Minimum Power Consumption in EDM of Hybrid MMCs. Materials Today: Proceedings, 2018, 5, 7788-7796.	0.9	6
43	Comparative Study on Cutting Force Simulation Using DEFORM 3D Software during High Speed Machining of Ti-6Al-4V. Key Engineering Materials, 2020, 856, 50-56.	0.4	6
44	Sustainability Assessment of Gas Metal Arc Welding Process of AISI 201LN using AHP-TLBO Integrated Optimization Methodology. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	6
45	Dynamic Programming Inspired Virtual Machine Instances Allocation in Cloud Computing. Journal of Computational and Theoretical Nanoscience, 2017, 14, 551-560.	0.4	6
46	A case study on Power Quality issues in the Indian Railway traction sub-station. , 2013, , .		5
47	Robotic Training to Bridge School Students with Engineering. Procedia Computer Science, 2015, 76, 27-33.	1.2	5
48	Study on Gas Tungsten Arc Welding Characteristics of Nickel based Aerospace Alloys. Materials Today: Proceedings, 2018, 5, 7337-7345.	0.9	5
49	Machining performance optimisation of MQL-assisted turning of Inconel-825 superalloy using GA for industrial applications. International Journal of Machining and Machinability of Materials, 2019, 21, 43.	0.1	5
50	Design of TAREEN (trust aware routing with energy efficient network) and enactment of TARF: a trust-aware routing framework for wireless sensor networks. Cluster Computing, 2019, 22, 11919-11927.	3.5	5
51	Study on the influence of heat input on mechanical property and microstructure of weld in GMAW of AISI 201LN stainless steel. Advances in Materials and Processing Technologies, 2022, 8, 81-91.	0.8	5
52	Microstructural Investigation and Integrated Optimization of Weld Bead Characteristics in Electron Beam Welding of Inconel 825. Transactions of the Indian Institute of Metals, 2021, 74, 2681-2701.	0.7	5
53	Online Machining Optimization with Continuous Learning. Advances in Mechatronics and Mechanical Engineering, 2012, , 85-110.	1.0	5
54	Intelligent Agent Based Talent Evaluation Engine Using a Knowledge Base. , 2009, , .		4

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55	Modified teaching learning based optimization for maximization of MRR in wire-cut EDM of Ti6Al4V alloy for sustainable production. AIP Conference Proceedings, 2019, , .	0.3	4
56	Investigations on wire electric discharge machining of hybrid nano metal matrix composites (AA6061/SiC/B ₄ C) for industry need based multi-response optimization. Engineering Research Express, 2019, 1, 025033.	0.8	4
57	Multi optimization of nano fluid based machining of titanium alloy: A green manufacturing approach. Materials Today: Proceedings, 2021, 46, 8921-8926.	0.9	4
58	Forging of metals and alloys for biomedical applications. , 2010, , 235-250.		3
59	Power Quality in Railway Traction and Compensation by Combining Shunt Hybrid Filter and TCR. Automatika, 2016, 57, 610-616.	1.2	3
60	Power Quality Conditioners for Railway Tractionâ€"a Review. Automatika, 2016, 57, 150-162.	1.2	3
61	Retinal blood vessels extraction and detection of exudates using wavelet transform and pnn approach for the assessment of diabetic retinopathy. , 2017, , .		3
62	Time situate recurrence estimation technique for efficient data collection in war field sensor network. Microprocessors and Microsystems, 2020, 73, 102988.	1.8	3
63	Multilayered Secure Medical Image Transmission with High Payload Using Double Density Dual Tree Discrete Wavelet Transform. Journal of Medical Imaging and Health Informatics, 2016, 6, 822-827.	0.2	3
64	Experimental investigation on cladding with metal cored wire using GMAW process and parametric optimization. Engineering Research Express, 2021, 3, 045025.	0.8	3
65	Novel approach for image stenography based on integer wavelet transform. , 2012, , .		2
66	Multi-Objective Optimization of Surface Roughness and Tool Wear in Turning Inconel 718: A Desirability Analysis, Genetic Algorithm and Firefly AlgorithmÂ. Applied Mechanics and Materials, 0, 592-594, 545-549.	0.2	2
67	Solving Multi Objective Job Shop Scheduling Problems Using Artificial Immune System Shifting Bottleneck Approach. Applied Mechanics and Materials, 0, 766-767, 1209-1213.	0.2	2
68	Wire Cut EDM of Al6061 Hybrid Nano Composites: Experimental Investigations and RSM Modeling of Surface Roughness. Materials Today: Proceedings, 2018, 5, 8206-8215.	0.9	2
69	A Joint Local Short Scheduling Mechanism for a Successful MIMOâ€"OFDM Communication System. Wireless Personal Communications, 2018, 100, 1201-1218.	1.8	2
70	Fabrication of Al7075-B4C-fly ash hybrid nanocomposites by ultrasonic assisted stir casting and tensile analysis. AIP Conference Proceedings, 2019, , .	0.3	2
71	RSM Modeling and Taguchi Analysis of EDM of B₄C and Flyash Reinforced Hybrid Nanocomposites. Key Engineering Materials, 0, 801, 227-232.	0.4	2
72	An efficient and low power impulsive noise suppressor architecture for OFDM system. Cluster Computing, 2019, 22, 12777-12783.	3.5	2

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73	Performance evaluation of mathematical predictive modeling for air quality forecasting. Cluster Computing, 2019, 22, 12481-12493.	3.5	2
74	Multi optimization of weld bead characteristics during GTAW of Inconel 825 using teaching learning based optimization. Materials Today: Proceedings, 2021, 46, 8958-8963.	0.9	2
75	TRIBOLOGY OF HA/HDPE COMPOSITES AGAINST STAINLESS STEEL IN THE PRESENCE OF PROTEINS. , 1999, , .		2
76	Investigation of Weld Bead Characteristics and Optimization of GMAW of Nitrogen Strengthened Austenitic Stainless Steel (AISI 201Gr). Lecture Notes in Mechanical Engineering, 2020, , 333-346.	0.3	2
77	Lubricated seizure of mild steel observed by X-ray imaging. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2000, 214, 359-374.	1.0	1
78	Interaction between polynomial congestion control algorithms MIMD-poly and PIPD-poly and other TCP variants in TCP/IP networks. , 2006, , .		1
79	Congestion Control Using Polynomial Window Size Adjustment Algorithms for Wired and Wireless TCP networks. , 0, , .		1
80	A new approach for estimating wall motion of b-mode common carotid artery using block matching technique. , 2012, , .		1
81	Analysis of B-mode transverse ultrasound common carotid artery images using contour tracking by particle filtering technique. , 2012, , .		1
82	Desirability Fuzzy Approach for Optimizing Multiple Performance Characteristics in Machining Metal Matrix Composites. Applied Mechanics and Materials, 0, 592-594, 128-133.	0.2	1
83	An improved neighbor cooperation using adjacent node cooperation in peer to peer networks. Cluster Computing, 2019, 22, 12263-12274.	3.5	1
84	PCA-GRA Integrated Multi Response Optimization of Wire-Cut EDM of Tiâ€“6Alâ€“4V Alloy for Sustainable Production. Lecture Notes in Mechanical Engineering, 2020, , 257-269.	0.3	1
85	Interaction Between MIMD-Poly and PIPD-Poly Algorithms and Other TCP Variants in Multiple Bottleneck TCP Networks. International Journal of Business Data Communications and Networking, 2006, 2, 46-64.	1.2	1
86	Gas Tungsten Arc Welding of Inconel 825 Sheet: Study on Weld Bead Geometry and GA Optimization. Lecture Notes in Mechanical Engineering, 2020, , 413-420.	0.3	1
87	Production of biodiesel from Livistona jenkinsiana Griff. AIP Conference Proceedings, 2020, , .	0.3	1
88	AHP-GRA Integrated Methodology for Decision-Making in WEDM of Ti-6Al-4ÂV Alloy. Smart Innovation, Systems and Technologies, 2022, , 599-612.	0.5	1
89	CHARACTERIZATION OF NANOSTRUCTURES IN BULK ALLOYS BY ELECTRICAL RESISTIVITY MEASUREMENTS. International Journal of Nanoscience, 2004, 03, 715-721.	0.4	0
90	Improving computational efficiency using polynomial congestion control algorithms MIMD-Poly and PIPD-Poly in TCP/IP networks. , 2006, , .		0

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91	Performance Evaluation of Polynomial Congestion Control Algorithms in Mobile Ad hoc TCP Networks. IETE Journal of Research, 2007, 53, 329-337.	1.8	0
92	A QSPS-PSR Approach on Differentiated TCP Flows for Internet Traffic. , 2009, , .		0
93	A Novel Bound Time Approach for Cluster Formation in Wireless Sensor Networks. , 2009, , .		0
94	Notice of Retraction: Strategic management of product development process capability using neural network approach. , 2010, , .		0
95	Experimental Investigation, Modeling and Optimization of Tribological Parameters of AA6061/SiC/B₄C Hybrid Nano Composites. Key Engineering Materials, 2019, 801, 83-88.	0.4	0
96	Investigation of weldment area and ultimate tensile strength of weld during GTAW of Inconel 825. AIP Conference Proceedings, 2019, , .	0.3	0
97	New Emerging Al7075 Based Hybrid Nanocomposite for Automotive Applications: A Sustainability Approach. Key Engineering Materials, 2020, 856, 29-35.	0.4	0
98	Investigation on Weld Bead Geometry of AISI 201LN in GMAW-Cold Metal Transfer (CMT) Process. Lecture Notes in Mechanical Engineering, 2020, , 379-386.	0.3	0