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	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
2	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
3	Multi optimization of nano fluid based machining of titanium alloy: A green manufacturing approach. Materials Today: Proceedings, 2021, 46, 8921-8926.	0.9	4
4	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
5	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
6	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
7	Performance of weld bead profile during A-TIG welding on nitrogen alloyed stainless steel. Engineering Research Express, 2021, 3, 045024.	0.8	7
8	Experimental investigation on cladding with metal cored wire using GMAW process and parametric optimization. Engineering Research Express, 2021, 3, 045025.	0.8	3
9	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
10	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
11	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
12	New Emerging Al7075 Based Hybrid Nanocomposite for Automotive Applications: A Sustainability Approach. Key Engineering Materials, 2020, 856, 29-35.	0.4	0
13	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
14	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
15	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
16	Time situate recurrence estimation technique for efficient data collection in war field sensor network. Microprocessors and Microsystems, 2020, 73, 102988.	1.8	3
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	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

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19	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
20	Production of biodiesel from Livistona jenkinsiana Griff. AIP Conference Proceedings, 2020, , .	0.3	1
21	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
22	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
23	Performance analysis of efficient data distribution in P2P environment using hybrid clustering techniques. Soft Computing, 2019, 23, 9253-9263.	2.1	8
24	Fabrication of Al7075-B4C-fly ash hybrid nanocomposites by ultrasonic assisted stir casting and tensile analysis. AIP Conference Proceedings, 2019, , .	0.3	2
25	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
26	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
27	Investigation of weldment area and ultimate tensile strength of weld during GTAW of Inconel 825. AIP Conference Proceedings, 2019, , .	0.3	0
28	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
29	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
30	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
31	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
32	An efficient and low power impulsive noise suppressor architecture for OFDM system. Cluster Computing, 2019, 22, 12777-12783.	3.5	2
33	Performance evaluation of mathematical predictive modeling for air quality forecasting. Cluster Computing, 2019, 22, 12481-12493.	3.5	2
34	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
35	An improved neighbor cooperation using adjacent node cooperation in peer to peer networks. Cluster Computing, 2019, 22, 12263-12274.	3.5	1
36	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

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37	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
38	Study on Gas Tungsten Arc Welding Characteristics of Nickel based Aerospace Alloys. Materials Today: Proceedings, 2018, 5, 7337-7345.	0.9	5
39	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
40	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
41	A Joint Local Short Scheduling Mechanism for a Successful MIMOâ€“OFDM Communication System. Wireless Personal Communications, 2018, 100, 1201-1218.	1.8	2
42	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
43	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
44	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
45	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
46	Investigation on welding characteristics of aerospace materials â€“ A review. Materials Today: Proceedings, 2017, 4, 7519-7526.	0.9	34
47	Machining Investigation on Hybrid Metal Matrix Composites- A Review. Materials Today: Proceedings, 2017, 4, 8167-8175.	0.9	31
48	Processing and Investigation of Tribological Properties of Basalt Epoxy Composites. Materials Today: Proceedings, 2017, 4, 8185-8191.	0.9	7
49	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
50	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
51	Retinal blood vessels extraction and detection of exudates using wavelet transform and pnn approach for the assessment of diabetic retinopathy. , 2017, , .		3
52	Dynamic Programming Inspired Virtual Machine Instances Allocation in Cloud Computing. Journal of Computational and Theoretical Nanoscience, 2017, 14, 551-560.	0.4	6
53	Power Quality in Railway Traction and Compensation by Combining Shunt Hybrid Filter and TCR. Automatika, 2016, 57, 610-616.	1.2	3
54	Application of Artificial Intelligence Approach in Modeling Surface Quality of Aerospace Alloys in WEDM Process. Procedia Technology, 2016, 25, 1199-1208.	1.1	16

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55	Power Quality Conditioners for Railway Tractionâ€"a Review. Automatika, 2016, 57, 150-162.	1.2	3
56	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
57	Development of an Autonomous Tennis Ball Retriever Robot As an Educational Tool. Procedia Computer Science, 2015, 76, 21-26.	1.2	9
58	Robotic Training to Bridge School Students with Engineering. Procedia Computer Science, 2015, 76, 27-33.	1.2	5
59	Development of Electromyography Signal Signature for Forearm Muscle. Procedia Computer Science, 2015, 76, 229-234.	1.2	12
60	Optimization of PID Control for High Speed Line Tracking Robots. Procedia Computer Science, 2015, 76, 147-154.	1.2	18
61	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
62	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
63	Online optimization of a finish turning process: strategy and experimental validation. International Journal of Advanced Manufacturing Technology, 2014, 75, 783-791.	1.5	7
64	Online optimization of multipass machining based on cloud computing. International Journal of Advanced Manufacturing Technology, 2013, 65, 239-250.	1.5	24
65	A case study on Power Quality issues in the Indian Railway traction sub-station. , 2013, , .		5
66	A new approach for estimating wall motion of b-mode common carotid artery using block matching technique. , 2012, , .		1
67	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
68	Ontology driven bee's foraging approach based self adaptive online recommendation system. Journal of Systems and Software, 2012, 85, 2439-2450.	3.3	7
69	Analysis of B-mode transverse ultrasound common carotid artery images using contour tracking by particle filtering technique. , 2012, , .		1
70	Novel approach for image stenography based on integer wavelet transform. , 2012, , .		2
71	Online Machining Optimization with Continuous Learning. Advances in Mechatronics and Mechanical Engineering, 2012, , 85-110.	1.0	5
72	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

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73	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
74	Forging of metals and alloys for biomedical applications. , 2010, , 235-250.		3
75	Notice of Retraction: Strategic management of product development process capability using neural network approach. , 2010, , .		0
76	A QSPS-PSR Approach on Differentiated TCP Flows for Internet Traffic. , 2009, , .		0
77	Intelligent Agent Based Talent Evaluation Engine Using a Knowledge Base. , 2009, , .		4
78	A Novel Bound Time Approach for Cluster Formation in Wireless Sensor Networks. , 2009, , .		0
79	Performance Evaluation of Polynomial Congestion Control Algorithms in Mobile Ad hoc TCP Networks. IETE Journal of Research, 2007, 53, 329-337.	1.8	0
80	Interaction between polynomial congestion control algorithms MIMD-poly and PIPD-poly and other TCP variants in TCP/IP networks. , 2006, , .		1
81	Improving computational efficiency using polynomial congestion control algorithms MIMD-Poly and PIPD-Poly in TCP/IP networks. , 2006, , .		0
82	Solving job shop scheduling problems using artificial immune system. International Journal of Advanced Manufacturing Technology, 2006, 31, 580-593.	1.5	51
83	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
84	CHARACTERIZATION OF NANOSTRUCTURES IN BULK ALLOYS BY ELECTRICAL RESISTIVITY MEASUREMENTS. International Journal of Nanoscience, 2004, 03, 715-721.	0.4	0
85	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
86	Title is missing!. Journal of Materials Science, 2000, 35, 1589-1596.	1.7	11
87	Title is missing!. Journal of Materials Science, 2000, 35, 1597-1602.	1.7	9
88	Matrix reinforcement interaction in SiC/316L stainless steel composite. Journal of Materials Science Letters, 2000, 19, 613-615.	0.5	10
89	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
90	TRIBOLOGY OF HA/HDPE COMPOSITES AGAINST STAINLESS STEEL IN THE PRESENCE OF PROTEINS. , 1999, , .		2

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91	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
92	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
93	Study of the interfacial phenomena during friction surfacing of aluminium with steels. Journal of Materials Science, 1997, 32, 6055-6062.	1.7	33
94	Congestion Control Using Polynomial Window Size Adjustment Algorithms for Wired and Wireless TCP networks. , 0, , .		1
95	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
96	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
97	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
98	RSM Modeling and Taguchi Analysis of EDM of B₄C and Flyash Reinforced Hybrid Nanocomposites. Key Engineering Materials, 0, 801, 227-232.	0.4	2