

Ramachandran Manickam

List of Publications by Year in descending order

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111
papers

2,581
citations

471509

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223800

46
g-index

112
all docs

112
docs citations

112
times ranked

1969
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of multi-criteria decision making to sustainable energy planningâ€”A review. Renewable and Sustainable Energy Reviews, 2004, 8, 365-381.	16.4	1,437
2	Comparative Analysis of Bamboo using Jute and Coir Fiber Reinforced Polymeric Composites. Materials Today: Proceedings, 2017, 4, 3182-3187.	1.8	59
3	Free Vibration Analysis of Laminated Composites by a Nine Node Isoparametric Plate Bending Element. Advanced Composites Letters, 2016, 25, 096369351602500.	1.3	50
4	Machine Learning-Based Predictive Modelling of Biodiesel Productionâ€”A Comparative Perspective. Energies, 2021, 14, 1122.	3.1	44
5	Mechanical Properties of Hybrid Glass/Carbon Fiber Reinforced Epoxy Composites. Materials Today: Proceedings, 2017, 4, 7375-7380.	1.8	40
6	A study on issues and preventive measures taken to control Covid-19. AIP Conference Proceedings, 2022, , .	0.4	40
7	A study on various fire retardant additives used for fire reinforced polymeric composites. AIP Conference Proceedings, 2022, , .	0.4	39
8	A review on effect of cooling rate in fiber reinforced polymeric composites. AIP Conference Proceedings, 2022, , .	0.4	33
9	A Comparative Study of Linear, Random Forest and AdaBoost Regressions for Modeling Non-Traditional Machining. Processes, 2021, 9, 2015.	2.8	31
10	A review on basalt fibre reinforced polymeric composite materials. AIP Conference Proceedings, 2022, , .	0.4	31
11	Sensitivity analysis and optimization of EDM process parameters. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 13-25.	0.8	29
12	A study on image processing with data analysis. AIP Conference Proceedings, 2022, , .	0.4	29
13	A Review on Various Implications on Re engineering in Manufacturing. , 2021, 7, .		27
14	An Empirical Study On Effectiveness of E-Learning Over Conventional Class Room Learning â€” A Case Study with Respect to Online Degree Programmes in Higher Education. , 2022, 3, 25-33.		26
15	Analysis of Optimized Wind Turbine Failure Using Computational Fluid Dynamics. Materials Today: Proceedings, 2017, 4, 1788-1793.	1.8	25
16	Multi-objective optimal sizing of distributed generation by application of Taguchi desirability function analysis. SN Applied Sciences, 2019, 1, 1.	2.9	25
17	A Study on Various Implications on Reusing in Manufacturing. , 2021, 7, .		25
18	Design, Modelling and Analysis of Tilted Human Powered Vehicle. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012215.	0.6	23

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19	Robust metamodels for accurate quantitative estimation of turbulent flow in pipe bends. Engineering With Computers, 2020, 36, 1041-1058.	6.1	22
20	An Extensive Study on Gravitational Search Algorithm. , 2022, 1, .		22
21	A Review on Biodiesel Properties and Fatty acid composites. , 2021, 7, 87-93.		22
22	Back Propagation Neural Network for Prediction of Some Shell Moulding Parameters. Periodica Polytechnica, Mechanical Engineering, 2016, 60, 203-208.	1.4	21
23	Application of Simulated Annealing in Various Field. , 2022, 1, 01-08.		19
24	Dielectric Properties of Jute Fibers Reinforced Poly(lactic acid)/Poly(butylene succinate) Blend Matrix. Journal of Polymers and the Environment, 2021, 29, 1240-1256.	5.0	18
25	Effect of Ethylene glycol as Phase Change Material in a Cold Storage Unit on retention of cooling. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012190.	0.6	16
26	Selection of Flywheel Material using Multicriteria Decision Making Fuzzy Topsis. Indian Journal of Science and Technology, 2015, 8, .	0.7	15
27	Design and Analysis of Hydrogen Storage Tank with Different Materials by Ansys. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012016.	0.6	15
28	Analysis of Coir Fiber Reinforced Poly-Lactic Acid (PLA) and Poly-Propylene (PP) Polymeric Composite. Applied Mechanics and Materials, 0, 852, 10-15.	0.2	14
29	Effect of Aluminium oxide Nano filler in Tetrafluoroethane (R-134a) Refrigerant. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012018.	0.6	14
30	A Review on Hill Climbing Optimization Methodology. , 2022, 3, 1-7.		14
31	A Review on Multi-Criteria Decision-Making and Its Application. , 2021, 7, 101-107.		14
32	Mechanical Characterization and Finite Element Investigation on Properties of PLA-Jute Composite. International Journal of Computer Applications, 2015, 123, 17-21.	0.2	13
33	An Investigation on Tabu Search Algorithms Optimization. , 2022, 1, 13-20.		13
34	Study on Fuzzy ELECTRE Method with Various Methodologies. , 2021, 7, .		13
35	Performance Analysis of Radial Basis Function Metamodels for Predictive Modelling of Laminated Composites. Materials, 2021, 14, 3306.	2.9	11
36	Optimization of Molding Process Parameter for Jute Reinforced Poly Lactic Acid Composite. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 71, 117-124.	0.6	11

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37	A Review on Structural Equation Modeling and Its Classification. , 2021, 7, .		11
38	A Review on Weight Process Method and its Classification. , 2021, 1, .		11
39	The Impact of Self-help Groups on the Women Empowerment in Tamil Nadu. , 2022, 1, 1-5.		11
40	Case Studies of Architecture and Interior Design Studios. , 2022, 1, 8-13.		11
41	OPTIMIZATION OF BIOMEDICAL WASTE DISPOSAL STRATEGY BY FUSSY TOPSIS METHOD. International Journal of Research in Ayurveda and Pharmacy, 2016, 7, 67-70.	0.1	10
42	A Study on Humanoid Robots and Its Psychological Evaluation. , 2022, 1, 48-54.		10
43	Exploring the Possibility of Urban Agriculture Farn. , 2022, 1, 1-8.		10
44	Multi Swarm Optimization Based Clustering with Tabu Search in Wireless Sensor Network. Sensors, 2022, 22, 1736.	3.8	9
45	A Review on Promethee and Analytic Hierarchy Process with Its Application. , 2022, 2, .		9
46	A Study on Weighted Aggregated Sum Product Assessment (WASPAS) w.r.t Multiple Criteria Decision Making. , 2022, 2, .		9
47	Metamodel-based parametric study of composite laminates. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012051.	0.6	8
48	Optimization of Material Removal Rate and Surface Roughness for Wire Electric Discharge Machining of AA7075 Composites using Grey Relational Analysis. International Journal of Vehicle Structures and Systems, 2018, 9, .	0.2	8
49	Optimizing Friction Stir Welding of Dissimilar Grades of Aluminum Alloy Using WASPAS. Materials, 2022, 15, 1715.	2.9	8
50	Prediction of Machining Characteristics of Hybrid Composites Using Response Surface Methodology Approach. International Journal of Engineering and Technology(UAE), 2018, 7, 162.	0.3	7
51	Mechanical, Morphological and Water absorption properties of Polypropylene based Composites. , 2022, 1, 48-52.		7
52	Investigating the Identification of Breast Cancer and Its Risk. , 2022, 1, 20-25.		7
53	Experimental Investigation on Droplet Formation through a Minichannel Y- Junction. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012189.	0.6	6
54	Techniques for Optimal Placement and Sizing of Distributed Energy Resources: a Review. International Review of Automatic Control, 2017, 10, 468.	0.3	6

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55	A Study on Impact of Covid-19 Pandemic across the World. , 2022, 1, .		6
56	Characteristics of Modern Landscape Architecture and Its Planning Methods. , 2022, 1, 21-31.		6
57	Investigation of a Magnet falling through a copper tube. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012042.	0.6	5
58	Effect of Copper Nano Powder on Kevlar Fiber Reinforced Epoxy Resin Composites. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012053.	0.6	5
59	Stress Concentration Factor for Jute Fibre Reinforced PLA Composite Plate with Circular Cut-out and its Effect on Coconut Shell Powder. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012082.	0.6	5
60	An Investigation of Environmental Accounting Measurement. , 2022, 1, 24-29.		5
61	A Review on Architectural Design and its Process. , 2022, 1, .		5
62	A Review on Entrepreneurship and its Oppurnities. , 2022, 1, 11-16.		5
63	Selection of distributed generation system using multicriteria decision making fuzzy TOPSIS optimization. , 2016, , .		4
64	Mechanical, Thermal and Morphological Characterization of Basalt Fibre Composite- A Review. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012043.	0.6	4
65	Study of Executive Director for Administrative Services on Moyamoya Disease and Energy application. , 2022, 7, .		4
66	Review on Various Application Bio Fuels. , 2022, 1, .		4
67	A Study on Input and Response Process Parameter for Drilling Operation. , 2022, 1, .		4
68	Exploring Various Landscape Design and its Characteristics. , 2022, 1, 32-42.		4
69	Investigation of Various Cement Productions and Its Characterization. , 2022, 1, 15-22.		4
70	Design and Numerical evaluation of crankshaft of diesel engine for total deformation and strain. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012010.	0.6	3
71	Review on Mechanical, Thermal and Morphological Characterization of Sisal Fibre Composite. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012074.	0.6	3
72	Multi-Objective Optimal Placement and Sizing of DGs by Hybrid Fuzzy TOPSIS and Taguchi Desirability Function Analysis Approach. Electric Power Components and Systems, 2020, 48, 2144-2155.	1.8	3

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73	A Review on Various Biofuels and its Applications. , 2022, 8, 1-9.		3
74	Understanding Illegal and Migrant Labour laws. , 2022, 7, 1-6.		3
75	Exploring Various Tourism and Its Implication. , 2022, 3, 72-78.		3
76	Investigation of Industry 4.0 in the Robotized Millennium. , 2022, 1, 15-21.		3
77	Investigation of Various Honey comb Structure and Its Application. , 2022, 1, 1-8.		3
78	Exploring Recent Trends in Computer Vision. , 2022, 1, 33-39.		3
79	Experimental Study of a Hybrid Solar Collector Using TiO ₂ /Water Nanofluids. Energies, 2022, 15, 4425.	3.1	3
80	Mapping & Analyzing Mechanical Properties of Dental Restorations with Product Composition. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012058.	0.6	2
81	Effect of fire retardancy materials in fibre reinforced composite plate for false ceilings- A Review. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012023.	0.6	2
82	Numerical evaluation of Knuckle Joint with stainless steel material for total deformation and Von Mises analysis. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012062.	0.6	2
83	Big Data Analytics for Mobility Prediction and Its Classification. , 2022, 2, 74-81.		2
84	Selection of Candidate for a Project Using WASPAS Method. , 2022, 1, 79-86.		2
85	Emerging Trends in Cellular Mobile Communication Technologies and Its Applications. , 2022, 1, 61-66.		2
86	Effect of Process Parameters on Roughness and Hardness of Surface and Dimensional Accuracy of Lost Wax Process Casting. Journal of Material Science & Engineering, 2015, 04, .	0.2	1
87	Review on Mechanical, Thermal and Morphological Characterization of Hemp Fiber Composite. IOP Conference Series: Materials Science and Engineering, 2020, 810, 012070.	0.6	1
88	INFLUENCE OF ACTIVATED CARBON PARTICLES ON MICROSTRUCTURE AND THERMAL ANALYSIS OF AA7075 METAL MATRIX COMPOSITES. Rasayan Journal of Chemistry, 0, , .	0.4	1
89	Identification of Most Affected Parameter for Design for Remanufacturing of Scrap Piston by Taguchi Desirability Function Analysis. Advances in Intelligent Systems and Computing, 2018, , 320-329.	0.6	1
90	Stress and Factor of Safety for Connecting Rod using Ansys. International Journal of Engineering and Advanced Technology, 2019, 8, 3463-3467.	0.3	1

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91	Mechanical, Thermal and Morphological Characterisation of Polybutylene based Composites. , 2022, 8, .		1
92	A Review on Phase Change Material as Energy Storage Materials. , 2022, 1, .		1
93	An Investigation on Humanoid Robots with Biped Locomotion and Walking. , 2022, 1, 55-61.		1
94	Exploring Architecture Modeling and Design Studio. , 2022, 1, 14-20.		1
95	Classification of Electrocardiography (ECG) Screening. , 2022, 1, 26-33.		1
96	Prediction of Best Micro and Small Entrepreneurs using EDAS Method. , 2022, 1, 29-35.		1
97	Low power VLSI architecture for LTeX binary to gray converters. , 2017, , .		0
98	Methods for Improving Communication Skills of Rural Students in Pharmaceutical Education. International Journal of Scientific and Engineering Research, 2014, 5, 310-314.	0.1	0
99	PRODUCTION AND MICROSTRUCTURE CHARACTERIZATION OF AA6061 MATRIX ACTIVATED CARBON PARTICULATE REINFORCED COMPOSITE BY FRICTION STIR CASTING METHOD. Rasayan Journal of Chemistry, 0, , .	0.4	0
100	Municipal Waste Disposal Strategy by Fuzzy TOPSIS Method. International Journal of Engineering and Advanced Technology, 2019, 8, 3497-3499.	0.3	0
101	Thermal Characterization of Graphene Based Composites. , 2022, 8, .		0
102	A Study on Just in Time Application in Flexible Manufacturing System. , 2021, 7, 1-5.		0
103	A Brief Study on Self-Help Groups Impact in the Women Empowerment. , 2022, 1, 6-10.		0
104	Optimal combination and sizing of multi-type DGs by application of multi-objective Taguchi method integrated with desirability function analysis. AIP Conference Proceedings, 2022, , .	0.4	0
105	Effect of copper nano particles on mechanical, thermal and morphological properties of short jute fiber reinforced poly lactic acid composites. AIP Conference Proceedings, 2022, , .	0.4	0
106	Flow analysis of secondary air injection in conical rocket nozzle. AIP Conference Proceedings, 2022, , .	0.4	0
107	An Overview of Network Robot System and Its Applications. , 2022, 1, 83-90.		0
108	An Detailed Study on Nano Fluids and Its Applications in Energy Sector. , 2022, 8, 52-57.		0

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109	An Overview of Dental Implant and Its Bio Mineralization Screening. , 2022, 1, 34-41.		0
110	A Review on Entrepreneurship and Its Implication. , 2022, 1, 36-42.		0
111	An Detailed Study on Unmanned Aerial Vehicle and Its Surveillance. , 2022, 1, 41-47.		0