

M Chandrasekaran

List of Publications by Year in descending order

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100
papers

1,582
citations

471509

17
h-index

330143

37
g-index

100
all docs

100
docs citations

100
times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic surfaces: a review on fundamentals, applications, and challenges. Journal of Coatings Technology Research, 2018, 15, 231-250.	2.5	388
2	Scaling up difficulties and commercial aspects of edible films for food packaging: A review. Trends in Food Science and Technology, 2020, 100, 210-222.	15.1	173
3	Nanoedible films for food packaging: a review. Journal of Materials Science, 2019, 54, 12290-12318.	3.7	117
4	Investigation of Momordica charantia seed biodiesel with cerium oxide nanoparticle on CI engine. International Journal of Ambient Energy, 2021, 42, 1615-1619.	2.5	53
5	Solving job shop scheduling problems using artificial immune system. International Journal of Advanced Manufacturing Technology, 2006, 31, 580-593.	3.0	51
6	Experimental determination of mechanical properties of banana jute hybrid composite. Fibers and Polymers, 2015, 16, 164-172.	2.1	50
7	Investigation on the effect of thermal barrier coating at different dosing levels of cerium oxide nanoparticle fuel on diesel in a CI engine. International Journal of Ambient Energy, 2020, 41, 98-104.	2.5	49
8	Investigation of Sapindus seed biodiesel with nano additive on single cylinder diesel engine. International Journal of Ambient Energy, 2020, 41, 1106-1109.	2.5	44
9	Effect of co-digestion agricultural-industrial residues: various slurry temperatures. International Journal of Ambient Energy, 2018, 39, 694-697.	2.5	37
10	Application of Firefly Algorithm in Job Shop Scheduling Problem for Minimization of Makespan. Procedia Engineering, 2014, 97, 1798-1807.	1.2	34
11	Estimation of Zwitterionic Surfactant Response in Electroless Composite Coating and Properties of Niâ€“CuO (Nano)Coating. Arabian Journal for Science and Engineering, 2019, 44, 821-828.	3.0	33
12	Control of carbon dioxide emission in automobile vehicles using CO ₂ scrubber. International Journal of Ambient Energy, 2019, 40, 699-703.	2.5	32
13	Experimental studies on convective heat transfer coefficient of water/ethylene glycol-carbon nanotube nanofluids. International Journal of Ambient Energy, 2020, 41, 296-299.	2.5	29
14	Experimental studies on flow and heat transfer characteristics of secondary refrigerant-based CNT nanofluids for cooling applications. International Journal of Ambient Energy, 2020, 41, 285-288.	2.5	27
15	Heat transfer enhancement through nano-fluids and twisted tape insert with rectangular cut on its rib in a double pipe heat exchanger. Materials Today: Proceedings, 2020, 21, 865-869.	1.8	26
16	Gear pair design optimization by Genetic Algorithm and FEA. , 2010, , .		25
17	Optimization of heterogeneous Bin packing using adaptive genetic algorithm. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012026.	0.6	22
18	Effect of the addition of 1-pentanol on engine performance and emission characteristics of diesel and biodiesel fuelled single cylinder diesel engine. International Journal of Ambient Energy, 2020, 41, 58-63.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Numerical exploration of heat transfer in a heat exchanger tube with cone shape inserts and Al ₂ O ₃ and CuO nanofluids. <i>Materials Today: Proceedings</i> , 2020, 21, 940-947.	1.8	18
20	Optimization of CO ₂ Laser Cutting of Stainless Steel Sheet for Curved Profile. <i>Materials Today: Proceedings</i> , 2018, 5, 14531-14538.	1.8	17
21	Experimental investigation on the mechanical properties of woven hybrid fiber reinforced epoxy composite. <i>Materials Today: Proceedings</i> , 2021, 37, 1850-1853.	1.8	16
22	Investigation of Tamarind Seed Oil biodiesel with aluminium oxide nanoparticle in CI engine. <i>Materials Today: Proceedings</i> , 2021, 37, 1417-1421.	1.8	16
23	Restructured review on Electrical Discharge Machining - A state of the art. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 183, 012015.	0.6	14
24	Experimental Investigation on the Frictional Wear Behaviour of TiAlN Coated Brake Pads. <i>Materials Today: Proceedings</i> , 2021, 37, 2419-2426.	1.8	14
25	Investigations on diesel engine characteristics with Pongamia biodiesel at dissimilar compression ratios. <i>International Journal of Ambient Energy</i> , 2021, 42, 1005-1008.	2.5	13
26	Investigation of Machine-ability of Inconel 800 in EDM with Coated Electrode. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 183, 012014.	0.6	12
27	Design and development of pneumatic compressed air vehicle. <i>Materials Today: Proceedings</i> , 2021, 37, 690-693.	1.8	12
28	Performance and pollutants analysis on diesel engine using blends of Jatropha Biodiesel and Mineral Turpentine as fuel. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 323-330.	3.5	11
29	CFD analysis of solar still with PCM. <i>Materials Today: Proceedings</i> , 2021, 37, 694-700.	1.8	11
30	Effect of Olive oil Concentrations on film properties of edible composite films prepared from Corn starch and Olive oil. <i>Research Journal of Pharmacy and Technology</i> , 2018, 11, 4934.	0.8	11
31	Optimal Solution for an Engineering Applications Using Modified Artificial Immune System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 183, 012025.	0.6	9
32	Experimental investigation of the influence of isobutanol addition on engine performance and emissions of a direct ignition diesel engine fuelled by biodiesel blends derived from waste vegetable oil. <i>International Journal of Ambient Energy</i> , 2019, 40, 187-194.	2.5	9
33	Heat transfer augmentation by nano-fluids and Spiral Spring insert in Double Tube Heat Exchanger – A numerical exploration. <i>Materials Today: Proceedings</i> , 2020, 21, 857-861.	1.8	9
34	Optimisation of gear reducer using evolutionary algorithm. <i>Materials Research Innovations</i> , 2014, 18, S6-378-S6-383.	2.3	8
35	Effect of Surface Treatment on the Mechanical Properties of Banana-Glass Fibre Hybrid Composites. <i>Applied Mechanics and Materials</i> , 0, 591, 7-10.	0.2	8
36	Influence of Process Parameters in n-PMEDM of Inconel 800 with Electrode and Coated Electrodes. <i>MATEC Web of Conferences</i> , 2017, 95, 02002.	0.2	7

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37	Experimental Investigation Nano Particles Influence in NPMEDM to Machine Inconel 800 with Electrolyte Copper Electrode. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012068.	0.6	7
38	Influence of turpentine addition in Jatropha biodiesel on CI engine performance, combustion and exhaust emissions. International Journal of Automotive Technology, 2016, 17, 697-702.	1.4	6
39	Improvement of Productivity in TIG Welding Plant by Equipment Design in Orbit. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012020.	0.6	6
40	Case Study Analysis of Job Shop Scheduling and its Integration with Material Requirement Planning. Materials Today: Proceedings, 2019, 16, 1034-1042.	1.8	6
41	Heat transfer augmentation by nano-fluids and circular fin insert in double tube heat exchanger – A numerical exploration. Materials Today: Proceedings, 2020, 21, 934-939.	1.8	6
42	Impulse excitation analysis of material defects in ball bearing. Materials Today: Proceedings, 2021, 39, 717-724.	1.8	6
43	A Performance Study of Real Coded Genetic Algorithm on Gear Design Optimization. Advanced Materials Research, 0, 622-623, 64-68.	0.3	5
44	The influence of bio additive on the compression ignition engine with diesel and Jatropha methyl ester biodiesel. International Journal of Ambient Energy, 2018, 39, 377-381.	2.5	5
45	Effect of total solids and agitation time on biogas yield, using rice husk. International Journal of Ambient Energy, 2019, 40, 101-104.	2.5	5
46	Influence of modified pent roof combustion cavity on diesel engine performance and emission characteristics. International Journal of Ambient Energy, 2019, 40, 827-831.	2.5	5
47	Behaviour of CI engine performance, combustion and exhaust emission with neem biodiesel at varied fuel injection rates. International Journal of Ambient Energy, 2019, 40, 749-753.	2.5	5
48	Investigation of appropriateness of coated steel piston for aluminium alloy piston for small engines. International Journal of Ambient Energy, 2020, 41, 1293-1298.	2.5	5
49	Impeller design and CFD analysis of fluid flow in rotodynamic pumps. Materials Today: Proceedings, 2021, 37, 2153-2157.	1.8	5
50	Optimization of CO2 laser cutting parameters on Austenitic type Stainless steel sheet. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012022.	0.6	4
51	Case Study of Cycle Time Reduction by Mechanization in Manufacturing Environment. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012023.	0.6	4
52	Investigation of gear pitting defect using vibration characteristics in a single-stage gearbox. International Journal of Electrical Engineering and Education, 2020, 57, 272-278.	0.8	4
53	Study properties and mechanical behavior of the shaft material 16MnCr5. Materials Today: Proceedings, 2021, 37, 2458-2461.	1.8	4
54	Experimental Investigation on the Effect of Cerium Oxide Nanoparticle Fuel Additives on Pumpkin Seed Oil in CI Engine. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	4

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55	Solving Job Shop Scheduling Problem Based on Employee Availability Constraint. Applied Mechanics and Materials, 0, 376, 197-206.	0.2	3
56	Optimization of Multi Objective Job Shop Scheduling Problems Using Firefly Algorithm. Applied Mechanics and Materials, 2014, 591, 157-162.	0.2	3
57	A Hybrid Discrete Firefly Algorithm for Multi-Objective Flexible Job Shop Scheduling Problems with Maintenance Activity. Applied Mechanics and Materials, 2014, 575, 922-925.	0.2	3
58	Design, Manufacture and Analysis of Al/SiC MMCs for Connecting Rod. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012009.	0.6	3
59	A Comparative Characteristic Study of Jatropha and Cardanol Biodiesel Blends. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012038.	0.6	3
60	Fillers preparation for polymer composite and its properties – a review. International Journal of Engineering and Technology(UAE), 2018, 7, 212.	0.3	3
61	Influence of nanocellulose addition on the film properties of the bionanocomposite edible films prepared from maize, rice, wheat, and potato starches. AIP Conference Proceedings, 2019, , .	0.4	3
62	Empirical performance analysis of VCR engine fuelled with karanja oil and various additives using ANOVA technique. International Journal of Ambient Energy, 2020, 41, 369-373.	2.5	3
63	Experimental investigation of a spark ignition engine using blends of biogas. International Journal of Ambient Energy, 2020, 41, 462-465.	2.5	3
64	Optimisation of catalytic system for tar mitigation in biomass producer gas. International Journal of Ambient Energy, 2020, 41, 621-626.	2.5	3
65	Material and design parameters optimization to enhance the life of Anti-Roll bar of commercial truck. Materials Today: Proceedings, 2021, 37, 1359-1366.	1.8	3
66	Performance and pollutant analysis of diesel engine with cashew shell oil as bio-material. Materials Today: Proceedings, 2021, 37, 685-689.	1.8	3
67	Mode I Fracture Toughness of Banana Fiber and Glass Fiber Reinforced Composites. Advanced Materials Research, 0, 622-623, 1320-1324.	0.3	2
68	Shuffled frog leaping algorithm approach to employee timetabling and job shop scheduling. International Journal of Internet Manufacturing and Services, 2014, 3, 178.	0.1	2
69	Performance and Emission Analysis of Compression Ignition Engine with Methyl Ester of Jatropha and Diesel. Indian Journal of Science and Technology, 2016, 9, .	0.7	2
70	Characterization of Nylon 6 Nano Fiber/E-Glass Fiber Reinforced Epoxy Composites. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012002.	0.6	2
71	Impact of Various Compression Ratio on the Compression Ignition Engine with Diesel and Jatropha Biodiesel. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012039.	0.6	2
72	Woven Hybrid Composites - Tensile and Flexural Properties of Jute Mat Fibres with Epoxy Composites. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012001.	0.6	2

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73	Study of Mesh Stiffness of Spur Gear Tooth by Considering Pitting Defect under Dynamic Load Conditions. IOP Conference Series: Materials Science and Engineering, 2020, 912, 022053.	0.6	2
74	Studies on CI engine characteristics with waste cooking oil as biomaterial. Materials Today: Proceedings, 2021, 37, 565-567.	1.8	2
75	Optimization of production cost for integrating job shop scheduling with production resources. Materials Today: Proceedings, 2021, 37, 1839-1844.	1.8	2
76	Design and analysis of novel biomass stove. Materials Today: Proceedings, 2021, 46, 4054-4058.	1.8	2
77	Effect of Fiber Parameters on the Mechanical Properties of Banana-Glass Fiber Hybrid Composites. Applied Mechanics and Materials, 0, 592-594, 202-205.	0.2	1
78	Experimental Investigation of process parameters influence on machining Inconel 800 in the Electrical Spark Eroding Machine. IOP Conference Series: Materials Science and Engineering, 2016, 157, 012007.	0.6	1
79	Investigation of solar water heater by using flat plate collector and evacuated tubes. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012035.	0.6	1
80	Effect of Coupling Agent on Mechanical Properties of Palm Petiole Nanofiber Reinforced Composite. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012006.	0.6	1
81	Investigation of watermelon seed oil biodiesel with Cerium oxide nanoparticle in CI engine. Materials Today: Proceedings, 2021, 44, 3633-3637.	1.8	1
82	Heat Transfer Amplification through Special Tube Inserts and Metallic Nanofluids in Heat Exchanger. International Journal of Vehicle Structures and Systems, 2020, 11, .	0.2	1
83	Evaluating the Mechanical Properties of Snake Grass Fibre and Sisal Fibre Hybrid Composites by Injection Moulding Method. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	1
84	Optimization of Total Holding Cost in Job Shop Scheduling by Using Hybrid Algorithm. Applied Mechanics and Materials, 0, 591, 176-179.	0.2	0
85	Computational Complexity Analysis of Selective Breeding Algorithm. Applied Mechanics and Materials, 0, 591, 172-175.	0.2	0
86	Multi Objective Optimization for Spur Gear Design Using Sheep Flocks Heredity Model Algorithm. Applied Mechanics and Materials, 0, 591, 68-71.	0.2	0
87	A New GT Heuristic for Solving Multi Objective Job Shop Scheduling Problems. Applied Mechanics and Materials, 0, 591, 184-188.	0.2	0
88	An approach of a Lampyridae family (firefly) algorithm for optimisation of Bagchi's job shop scheduling problems. International Journal of Enterprise Network Management, 2015, 6, 324.	0.3	0
89	Analysis of Biomethanation Process from market waste to generate bio energy. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012031.	0.6	0
90	Critical Machine Based Scheduling -A Review. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012027.	0.6	0

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91	Heuristic for Critical Machine Based a Lot Streaming for Two-Stage Hybrid Production Environment. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012030.	0.6	0
92	Comparison in surface roughness of Ti6Al4v using CBN & bondless tool with the operations of turning and grinding. AIP Conference Proceedings, 2020, , .	0.4	0
93	A statistical analysis on tar reduction in producer gas for IC engine application. International Journal of Ambient Energy, 2021, 42, 156-162.	2.5	0
94	Challenges in Turbomatching - An Ample Review. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
95	Mechanical Characterization of Roselle and Sisal Fibre Reinforced Polymer Composites. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
96	Intensification of Heat Transfer in a Double Tube Heat Exchanger with Nano-Fluids and Trapezoidal Cut Twisted Tape - A Numerical Study. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
97	A Catalytic Tar Reduction Methodology Gaseous Fuels. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
98	Dynamic Load Test Based Data-Logger Turbo matching of B60J67 A58N70 and A58N75 Turbochargers for Tata 497 TCIC-BS III Engine - An Investigation. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
99	Heat Transfer Effect of CNT and Ethylene Glycol Based Nano-Fluid in Twisted Tape Heat Exchanger with Balls. International Journal of Vehicle Structures and Systems, 2020, 12, .	0.2	0
100	CFD Analysis of Twisted Tape Heat Exchanger with Twist Ratio of 3 in Metallic and Ceramic Nano Fluids. International Journal of Vehicle Structures and Systems, 2020, 12, .	0.2	0