

# M Chandrasekaran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4867520/publications.pdf>

Version: 2024-02-01

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	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
2	Design and development of pneumatic compressed air vehicle. Materials Today: Proceedings, 2021, 37, 690-693.	1.8	12
3	CFD analysis of solar still with PCM. Materials Today: Proceedings, 2021, 37, 694-700.	1.8	11
4	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
5	Investigations on diesel engine characteristics with Pongamia biodiesel at dissimilar compression ratios. International Journal of Ambient Energy, 2021, 42, 1005-1008.	2.5	13
6	Experimental investigation on the mechanical properties of woven hybrid fiber reinforced epoxy composite. Materials Today: Proceedings, 2021, 37, 1850-1853.	1.8	16
7	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
8	Investigation of Tamarind Seed Oil biodiesel with aluminium oxide nanoparticle in CI engine. Materials Today: Proceedings, 2021, 37, 1417-1421.	1.8	16
9	Studies on CI engine characteristics with waste cooking oil as biomaterial. Materials Today: Proceedings, 2021, 37, 565-567.	1.8	2
10	Performance and pollutant analysis of diesel engine with cashew shell oil as bio-material. Materials Today: Proceedings, 2021, 37, 685-689.	1.8	3
11	Optimization of production cost for integrating job shop scheduling with production resources. Materials Today: Proceedings, 2021, 37, 1839-1844.	1.8	2
12	Impeller design and CFD analysis of fluid flow in rotodynamic pumps. Materials Today: Proceedings, 2021, 37, 2153-2157.	1.8	5
13	Experimental Investigation on the Frictional Wear Behaviour of TiAlN Coated Brake Pads. Materials Today: Proceedings, 2021, 37, 2419-2426.	1.8	14
14	Impulse excitation analysis of material defects in ball bearing. Materials Today: Proceedings, 2021, 39, 717-724.	1.8	6
15	Investigation of watermelon seed oil biodiesel with Cerium oxide nanoparticle in CI engine. Materials Today: Proceedings, 2021, 44, 3633-3637.	1.8	1
16	Study properties and mechanical behavior of the shaft material 16MnCr5. Materials Today: Proceedings, 2021, 37, 2458-2461.	1.8	4
17	Design and analysis of novel biomass stove. Materials Today: Proceedings, 2021, 46, 4054-4058.	1.8	2
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Experimental investigation of a spark ignition engine using blends of biogas. International Journal of Ambient Energy, 2020, 41, 462-465.	2.5	3
25	Optimisation of catalytic system for tar mitigation in biomass producer gas. International Journal of Ambient Energy, 2020, 41, 621-626.	2.5	3
26	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
27	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
28	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
29	Numerical exploration of heat transfer in a heat exchanger tube with cone shape inserts and Al <sub>2</sub> O <sub>3</sub> and CuO nanofluids. Materials Today: Proceedings, 2020, 21, 940-947.	1.8	18
30	Heat transfer augmentation by nano-fluids and Spiral Spring insert in Double Tube Heat Exchanger – A numerical exploration. Materials Today: Proceedings, 2020, 21, 857-861.	1.8	9
31	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
32	Comparison in surface roughness of Ti6Al4v using CBN & bondless tool with the operations of turning and grinding. AIP Conference Proceedings, 2020, , .	0.4	0
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Estimation of Zwitterionic Surfactant Response in Electroless Composite Coating and Properties of Niâ€“Pâ€“CuO (Nano)Coating. Arabian Journal for Science and Engineering, 2019, 44, 821-828.	3.0	33
39	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
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	Nanoedible films for food packaging: a review. Journal of Materials Science, 2019, 54, 12290-12318.	3.7	117
42	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
43	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. International Journal of Ambient Energy, 2019, 40, 187-194.	2.5	9
44	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
45	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
46	Control of carbon dioxide emission in automobile vehicles using CO <sub>2</sub> scrubber. International Journal of Ambient Energy, 2019, 40, 699-703.	2.5	32
47	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
48	Challenges in Turbomatching - An Ample Review. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
49	Mechanical Characterization of Roselle and Sisal Fibre Reinforced Polymer Composites. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
50	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
51	A Catalytic Tar Reduction Methodology Gaseous Fuels. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
52	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
53	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
54	Superhydrophobic surfaces: a review on fundamentals, applications, and challenges. Journal of Coatings Technology Research, 2018, 15, 231-250.	2.5	388

#	ARTICLE	IF	CITATIONS
55	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
56	Effect of co-digestion agricultural-industrial residues: various slurry temperatures. International Journal of Ambient Energy, 2018, 39, 694-697.	2.5	37
57	Optimization of CO <sub>2</sub> Laser Cutting of Stainless Steel Sheet for Curved Profile. Materials Today: Proceedings, 2018, 5, 14531-14538.	1.8	17
58	Fillers preparation for polymer composite and its properties – a review. International Journal of Engineering and Technology(UAE), 2018, 7, 212.	0.3	3
59	Effect of Olive oil Concentrations on film properties of edible composite films prepared from Corn starch and Olive oil. Research Journal of Pharmacy and Technology, 2018, 11, 4934.	0.8	11
60	Influence of Process Parameters in n-PMEDM of Inconel 800 with Electrode and Coated Electrodes. MATEC Web of Conferences, 2017, 95, 02002.	0.2	7
61	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
62	Optimization of CO <sub>2</sub> laser cutting parameters on Austenitic type Stainless steel sheet. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012022.	0.6	4
63	Design, Manufacture and Analysis of Al/SiC MMCs for Connecting Rod. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012009.	0.6	3
64	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
65	Analysis of Biomethanation Process from market waste to generate bio energy. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012031.	0.6	0
66	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
67	Restructured review on Electrical Discharge Machining - A state of the art. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012015.	0.6	14
68	Optimization of heterogeneous Bin packing using adaptive genetic algorithm. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012026.	0.6	22
69	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
70	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
71	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
72	A Comparative Characteristic Study of Jatropha and Cardanol Biodiesel Blends. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012038.	0.6	3

#	ARTICLE	IF	CITATIONS
73	Critical Machine Based Scheduling -A Review. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012027.	0.6	0
74	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
75	Performance and pollutants analysis on diesel engine using blends of Jatropha Biodiesel and Mineral Turpentine as fuel. International Journal of Environmental Science and Technology, 2017, 14, 323-330.	3.5	11
76	Optimal Solution for an Engineering Applications Using Modified Artificial Immune System. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012025.	0.6	9
77	Investigation of Machine-ability of Inconel 800 in EDM with Coated Electrode. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012014.	0.6	12
78	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
79	Case Study of Cycle Time Reduction by Mechanization in Manufacturing Environment. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012023.	0.6	4
80	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
81	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
82	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
83	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
84	Experimental determination of mechanical properties of banana jute hybrid composite. Fibers and Polymers, 2015, 16, 164-172.	2.1	50
85	Application of Firefly Algorithm in Job Shop Scheduling Problem for Minimization of Makespan. Procedia Engineering, 2014, 97, 1798-1807.	1.2	34
86	Optimization of Multi Objective Job Shop Scheduling Problems Using Firefly Algorithm. Applied Mechanics and Materials, 2014, 591, 157-162.	0.2	3
87	Optimisation of gear reducer using evolutionary algorithm. Materials Research Innovations, 2014, 18, S6-378-S6-383.	2.3	8
88	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
89	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
90	Gear pair design optimization by Genetic Algorithm and FEA. , 2010, , .		25

#	ARTICLE	IF	CITATIONS
91	Solving job shop scheduling problems using artificial immune system. International Journal of Advanced Manufacturing Technology, 2006, 31, 580-593.	3.0	51
92	A Performance Study of Real Coded Genetic Algorithm on Gear Design Optimization. Advanced Materials Research, 0, 622-623, 64-68.	0.3	5
93	Mode I Fracture Toughness of Banana Fiber and Glass Fiber Reinforced Composites. Advanced Materials Research, 0, 622-623, 1320-1324.	0.3	2
94	Solving Job Shop Scheduling Problem Based on Employee Availability Constraint. Applied Mechanics and Materials, 0, 376, 197-206.	0.2	3
95	Optimization of Total Holding Cost in Job Shop Scheduling by Using Hybrid Algorithm. Applied Mechanics and Materials, 0, 591, 176-179.	0.2	0
96	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
97	Computational Complexity Analysis of Selective Breeding Algorithm. Applied Mechanics and Materials, 0, 591, 172-175.	0.2	0
98	Effect of Surface Treatment on the Mechanical Properties of Banana-Glass Fibre Hybrid Composites. Applied Mechanics and Materials, 0, 591, 7-10.	0.2	8
99	Multi Objective Optimization for Spur Gear Design Using Sheep Flocks Heredity Model Algorithm. Applied Mechanics and Materials, 0, 591, 68-71.	0.2	0
100	A New GT Heuristic for Solving Multi Objective Job Shop Scheduling Problems. Applied Mechanics and Materials, 0, 591, 184-188.	0.2	0