Rajesh Arora

List of Publications by Year
in descending order

30 papers	552 citations	759233 12 h-index	677142 22 g-index
30 all docs	30 docs citations	30 times ranked	363 citing authors

#	Article	IF	Citations
1	Multi-objective thermo-economic optimization of solar parabolic dish Stirling heat engine with regenerative losses using NSGA-II and decision making. International Journal of Electrical Power and Energy Systems, 2016, 74, 25-35.	5.5	80
2	Multi-objective and multi-parameter optimization of two-stage thermoelectric generator in electrically series and parallel configurations through NSGA-II. Energy, 2015, 91, 242-254.	8.8	72
3	Thermodynamic modeling and multi-objective optimization of two stage thermoelectric generator in electrically series and parallel configuration. Applied Thermal Engineering, 2016, 103, 1312-1323.	6.0	64
4	Soft computing based multi-objective optimization of Brayton cycle power plant with isothermal heat addition using evolutionary algorithm and decision making. Applied Soft Computing Journal, 2016, 46, 267-283.	7.2	48
5	Performance assessment of 186â€‰kWp grid interactive solar photovoltaic plant in Northern India. International Journal of Ambient Energy, 2022, 43, 128-141.	2.5	25
6	Multiobjective optimization and analytical comparison of single- and 2-stage (series/parallel) thermoelectric heat pumps. International Journal of Energy Research, 2018, 42, 1760-1778.	4.5	22
7	Multicriteria optimization based comprehensive comparative analyses of single- and two-stage (series/parallel) thermoelectric generators including the influence of Thomson effect. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	20
8	Multi-objective thermodynamic optimization of solar parabolic dish stirling heat engine with regenerative losses using NSGA-II and decision making. Applied Solar Energy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
9	Multi-objective thermodynamic optimisation of solar parabolic dish Stirling heat engine using NSGA-II and decision making. International Journal of Renewable Energy Technology, 2017, 8, 64.	0.3	16
10	CFD Prediction of dust deposition and installation parametric optimisation for soiling mitigation in non-tracking solar PV modules. International Journal of Ambient Energy, 2021, 42, 1307-1320.	2.5	16
11	A method to predict solar photovoltaic soiling using artificial neural networks and multiple linear regression models. Energy Systems, 2020, 11, 981-1002.	3.0	16
12	Influence of irradiance incidence angle and installation configuration on the deposition of dust and dust-shading of a photovoltaic array. Energy, 2021, 216, 119289.	8.8	16
13	Multi-objective spur gear design using teaching learning-based optimization and decision-making techniques. Cogent Engineering, 2019, 6, .	2.2	15
14	Design optimization of a three-stage transmission using advanced optimization techniques. International Journal for Simulation and Multidisciplinary Design Optimization, 2019, 10, A8.	1.1	15
15	Multi-objective optimization of a 2-stage spur gearbox using NSGA-II and decision-making methods. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	14
16	Multi-objective optimization of solar powered ericsson cycle using genetic algorithm and fuzzy decision making. , 2015, , .		13
17	Applications of Artificial Intelligence and Internet of Things for Detection and Future Directions to Fight Against COVID-19. Studies in Systems, Decision and Control, 2021, , 107-119.	1.0	12
18	Numerical investigation of installation and environmental parameters on soiling of roof-mounted solar photovoltaic array. Cogent Engineering, 2019, 6, .	2.2	11

#	Article	IF	Citations
19	Quality characteristics optimization in CNC end milling of A36 K02600 using Taguchi's approach coupled with artificial neural network and genetic algorithm. International Journal of Systems Assurance Engineering and Management, 2019, 10, 676-695.	2.4	11
20	Multi-objective optimization of an irreversible regenerative Brayton cycle using genetic algorithm. , 2015, , .		8
21	Prediction and forecasting of COVID-19 outbreak using regression and ARIMA models. Journal of Interdisciplinary Mathematics, 2021, 24, 227-243.	0.7	8
22	Optimizing wind barrier and photovoltaic array configuration in soiling mitigation. Renewable Energy, 2021, 163, 225-236.	8.9	7
23	Flow Characteristics of Multiphase Glass Beads-Water Slurry through Horizontal Pipeline using Computational Fluid Dynamics. International Journal of Automotive and Mechanical Engineering, 2019, 16, 6605-6623.	0.9	7
24	Optimization of turning parameters of Aluminum 6351 T6 using Taguchi decision making technique. International Journal of Data and Network Science, 2017, , 27-38.	4.6	6
25	Numerical investigation of soiling of multi-row rooftop solar PV arrays. International Journal of Energy and Environmental Engineering, 2020, 11, 439-458.	2.5	4
26	Parametric Investigations and Thermodynamic Optimization of Regenerative Brayton Heat Engine. Lecture Notes in Mechanical Engineering, 2019, , 753-762.	0.4	2
27	Gear concept selection procedure using fuzzy QFD, AHP and tacit knowledge. Cogent Engineering, 2020, 7, 1802816.	2.2	2
28	A METHOD TO PREDICT FOULING ON MULTI-STOREY BUILDING MOUNTED SOLAR PHOTOVOLTAIC PANELS: A COMPUTATIONAL FLUID DYNAMICS APPROACH. Journal of Thermal Engineering, 0, , 700-714.	1.6	2
29	Design Optimization of a Gearbox: Problem Formulation Procedure. , 2018, , .		1
30	Influence of geometric variables on spur gear volume. International Journal for Simulation and Multidisciplinary Design Optimization, 2020, 11, 8.	1.1	0