

Iniyan Selvarasan

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

3,974
citations

279487

23
h-index

197535

49
g-index

56
all docs

56
docs citations

56
times ranked

4663
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on a solar parabolic trough receiver tube enhanced by toroidal rings. International Journal of Energy Research, 2022, 46, 6637-6653.	2.2	2
2	Computational modeling and performance evaluation of an advanced micro-gasifier cookstove with optimum air injection. Biofuels, 2021, 12, 1029-1039.	1.4	5
3	Numerical study of titanium oxide nanoparticle enhanced energy storage material in solar desalination. Materials Today: Proceedings, 2021, 43, 805-808.	0.9	5
4	Performance analysis of <sc>1</sc> and <sc>2</sc> ridge concentrator <sc>PV</sc> system with various geometrical conditions. International Journal of Energy Research, 2021, 45, 14561-14578.	2.2	3
5	Experimental analysis of heat loss of a non-evacuated parabolic trough collector receiver subjected to uniform and non-uniform wall heat flux condition. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2807-2819.	1.2	0
6	Characterization, density and size effects of fuels in an advanced micro-gasifier stove. Biofuels, 2020, 11, 857-869.	1.4	11
7	Experimental investigation of ridge concentrator PV-based solar water pumping system for small-scale applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 1844-1860.	1.2	5
8	Experimental investigation on flat plate solar collector using frictionally engaged thermal performance enhancer in the absorber tube. Renewable Energy, 2019, 142, 62-72.	4.3	30
9	Experimental investigation of doped mwcnts on biodiesel for enhancement of the performance and exhaust emissions in a diesel engine. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 358-366.	1.0	6
10	Enhancing the optical and thermal efficiency of a parabolic trough collector – A review. Applied Energy, 2019, 235, 1524-1540.	5.1	184
11	Studies on latent heat energy storage (LHES) materials for solar desalination application-focus on material properties, prioritization, selection and future research potential. Solar Energy Materials and Solar Cells, 2019, 189, 149-165.	3.0	27
12	Effects of nanoparticle-enhanced phase change material (NPCM) on solar still productivity. Journal of Cleaner Production, 2018, 192, 9-29.	4.6	197
13	Experimental design and 4E (energy, exergy, emission, and economical) analysis of a fixed bed advanced microgasifier stove. Environmental Progress and Sustainable Energy, 2018, 37, 2139-2147.	1.3	3
14	Exergy, economic and environmental analysis of forced circulation flat plate solar collector using heat transfer enhancer in riser tube. Journal of Cleaner Production, 2018, 171, 1118-1127.	4.6	58
15	Thermal performance of solar water heater using velocity enhancer. Renewable Energy, 2018, 115, 887-895.	4.3	25
16	Techno-economic analysis of solar stills using integrated fuzzy analytical hierarchy process and data envelopment analysis. Solar Energy, 2018, 159, 820-833.	2.9	43
17	Thermodynamic analysis of a single effect lithium bromide water absorption system using waste heat in sugar industry. Thermal Science, 2018, 22, 507-517.	0.5	3
18	Experimental investigation of a copper sheet-laminated solar photovoltaic thermal water collector. Energy Efficiency, 2017, 10, 117-128.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Combustion characteristics of biomass fuels in a fixed bed micro-gasifier cook stove. Journal of Mechanical Science and Technology, 2017, 31, 995-1002.	0.7	22
20	Low mass fraction impregnation with graphene oxide (GO) enhances thermo-physical properties of paraffin for heat storage applications. Thermochimica Acta, 2017, 655, 226-233.	1.2	27
21	Experimental investigation on heat transfer and pumping power of forced circulation flat plate solar collector using heat transfer enhancer in absorber tube. Applied Thermal Engineering, 2017, 112, 237-247.	3.0	54
22	Nanoparticles Enhanced Phase Change Material (NPCM) as Heat Storage in Solar Still Application for Productivity Enhancement. Energy Procedia, 2017, 141, 45-49.	1.8	74
23	Solar stills: A comprehensive review of designs, performance and material advances. Renewable and Sustainable Energy Reviews, 2016, 63, 464-496.	8.2	178
24	Market-acceptable cost for a hybrid solar linear concentrator in India – A sensitivity study. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 80-86.	1.8	0
25	Design construction and analysis of solar ridge concentrator photovoltaic (PV) system to improve battery charging performance. Ecotoxicology and Environmental Safety, 2016, 127, 187-192.	2.9	13
26	Regression analysis of a curved vane demister with Taguchi based optimization. Desalination, 2015, 370, 33-43.	4.0	30
27	Exergy analysis and annual exergetic performance evaluation of solar hybrid STIG (steam injected gas) Tj ETQq1 1 0,784314 rgBT /Ove	4.5	30
28	A desalination method utilising low-grade waste heat energy. Desalination and Water Treatment, 2015, 56, 2037-2045.	1.0	10
29	Heat Transfer Enhancement Characteristics of Al ₂ O ₃ /Water and CuO/Water Nanofluids in a Tube in Tube Condenser Fitted With an Air Conditioning System – An Experimental Comparison. Journal of Thermal Science and Engineering Applications, 2014, 6, .	0.8	9
30	Numerical analysis of curved vane demisters in estimating water droplet separation efficiency. Desalination, 2014, 339, 40-53.	4.0	41
31	An optimal electricity allocation model for sustainable resource use in India. International Journal of Energy Research, 2013, 37, 923-935.	2.2	9
32	A prototype flash cooling desalination system using cooling water effluents. International Journal of Energy Research, 2013, 37, 1132-1140.	2.2	5
33	Design, embodied energy analysis and GHG emissions of solar central receiver power tower (CRPT) for a 5kW system. , 2013, , .		1
34	Influence of turbulence models on the performance prediction of flow through curved vane demisters. Desalination, 2013, 329, 19-28.	4.0	33
35	Design, development and testing of a 1kW wind turbine system. , 2013, , .		0
36	On the Economics of CHAPS System Based on the Photovoltaic Linear Concentrators in India. International Journal of Green Energy, 2012, 9, 335-351.	2.1	1

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37	A review of climate change, mitigation and adaptation. Renewable and Sustainable Energy Reviews, 2012, 16, 878-897.	8.2	264
38	A review of solar drying technologies. Renewable and Sustainable Energy Reviews, 2012, 16, 2652-2670.	8.2	235
39	Forecasting of Coal Consumption Using an Artificial Neural Network and Comparison with Various Forecasting Techniques. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2011, 33, 1305-1316.	1.2	16
40	A review of solar photovoltaic technologies. Renewable and Sustainable Energy Reviews, 2011, 15, 1625-1636.	8.2	1,428
41	Energy efficient fuzzy based combined variable refrigerant volume and variable air volume air conditioning system for buildings. Applied Energy, 2010, 87, 1158-1175.	5.1	64
42	Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm. Energy and Buildings, 2010, 42, 745-762.	3.1	46
43	A hybrid solar linear concentrator prototype in India. , 2010, , .		2
44	Phase change characteristic study of spherical PCMs in solar energy storage. Solar Energy, 2009, 83, 1245-1252.	2.9	90
45	Experimental analysis of fuzzy controlled energy efficient demand controlled ventilation economizer cycle variable air volume air conditioning system. Thermal Science, 2008, 12, 15-32.	0.5	4
46	Experimental Evaluation of Combined DCV and Economizer Cycle using a FLC Variable Air Volume (VAV) System. International Journal of Ventilation, 2007, 5, 393-403.	0.2	3
47	Experimental Analysis of a Genetic-Fuzzy Inverter DX VAV A/C System for Automatically Ventilated Buildings. International Journal of Ventilation, 2007, 6, 219-234.	0.2	2
48	Comparative Energy Analysis of a Constant Air Volume (CAV) System and a Variable Air Volume (VAV) System for a Software Laboratory. International Journal of Ventilation, 2006, 5, 229-237.	0.2	7
49	A review of energy models. Renewable and Sustainable Energy Reviews, 2006, 10, 281-311.	8.2	547
50	Energy models for commercial energy prediction and substitution of renewable energy sources. Energy Policy, 2006, 34, 2640-2653.	4.2	42
51	The application of a Delphi technique in the linear programming optimization of future renewable energy options for India. Biomass and Bioenergy, 2003, 24, 39-50.	2.9	35
52	A survey of social acceptance in using renewable energy sources for the new millennium. Renewable Energy, 2001, 24, 657-661.	4.3	10
53	AN OPTIMAL RENEWABLE ENERGY MATHEMATICAL MODEL FOR SUSTAINABLE ENERGY. , 2000, , .		0
54	Stability and consensus analysis on the Delphi study for the utilisation of renewable energy sources in India. International Journal of Ambient Energy, 1998, 19, 171-180.	1.4	11

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55	On the development of a reliability based optimal renewable energy model for the sustainable energy scene in India. International Journal of Ambient Energy, 1997, 18, 153-164.	1.4	8
56	Optical performance enhancement in a solar parabolic trough collector with optimized secondary optics. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-18.	1.2	4