

Iniyan Selvarasan

List of Publications by Year in descending order

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56
papers

3,974
citations

279701

23
h-index

197736

49
g-index

56
all docs

56
docs citations

56
times ranked

4663
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of solar photovoltaic technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1625-1636.	8.2	1,428
2	A review of energy models. <i>Renewable and Sustainable Energy Reviews</i> , 2006, 10, 281-311.	8.2	547
3	A review of climate change, mitigation and adaptation. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 878-897.	8.2	264
4	A review of solar drying technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2652-2670.	8.2	235
5	Effects of nanoparticle-enhanced phase change material (NPCM) on solar still productivity. <i>Journal of Cleaner Production</i> , 2018, 192, 9-29.	4.6	197
6	Enhancing the optical and thermal efficiency of a parabolic trough collector – A review. <i>Applied Energy</i> , 2019, 235, 1524-1540.	5.1	184
7	Solar stills: A comprehensive review of designs, performance and material advances. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 464-496.	8.2	178
8	Phase change characteristic study of spherical PCMs in solar energy storage. <i>Solar Energy</i> , 2009, 83, 1245-1252.	2.9	90
9	Nanoparticles Enhanced Phase Change Material (NPCM) as Heat Storage in Solar Still Application for Productivity Enhancement. <i>Energy Procedia</i> , 2017, 141, 45-49.	1.8	74
10	Energy efficient fuzzy based combined variable refrigerant volume and variable air volume air conditioning system for buildings. <i>Applied Energy</i> , 2010, 87, 1158-1175.	5.1	64
11	Exergy, economic and environmental analysis of forced circulation flat plate solar collector using heat transfer enhancer in riser tube. <i>Journal of Cleaner Production</i> , 2018, 171, 1118-1127.	4.6	58
12	Experimental investigation on heat transfer and pumping power of forced circulation flat plate solar collector using heat transfer enhancer in absorber tube. <i>Applied Thermal Engineering</i> , 2017, 112, 237-247.	3.0	54
13	Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm. <i>Energy and Buildings</i> , 2010, 42, 745-762.	3.1	46
14	Techno-economic analysis of solar stills using integrated fuzzy analytical hierarchy process and data envelopment analysis. <i>Solar Energy</i> , 2018, 159, 820-833.	2.9	43
15	Energy models for commercial energy prediction and substitution of renewable energy sources. <i>Energy Policy</i> , 2006, 34, 2640-2653.	4.2	42
16	Numerical analysis of curved vane demisters in estimating water droplet separation efficiency. <i>Desalination</i> , 2014, 339, 40-53.	4.0	41
17	The application of a Delphi technique in the linear programming optimization of future renewable energy options for India. <i>Biomass and Bioenergy</i> , 2003, 24, 39-50.	2.9	35
18	Influence of turbulence models on the performance prediction of flow through curved vane demisters. <i>Desalination</i> , 2013, 329, 19-28.	4.0	33

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19	Regression analysis of a curved vane demister with Taguchi based optimization. <i>Desalination</i> , 2015, 370, 33-43.	4.0	30
20	Exergy analysis and annual exergetic performance evaluation of solar hybrid STIG (steam injected gas) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	4.5	30
21	Experimental investigation on flat plate solar collector using frictionally engaged thermal performance enhancer in the absorber tube. <i>Renewable Energy</i> , 2019, 142, 62-72.	4.3	30
22	Low mass fraction impregnation with graphene oxide (GO) enhances thermo-physical properties of paraffin for heat storage applications. <i>Thermochimica Acta</i> , 2017, 655, 226-233.	1.2	27
23	Studies on latent heat energy storage (LHES) materials for solar desalination application-focus on material properties, prioritization, selection and future research potential. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 149-165.	3.0	27
24	Thermal performance of solar water heater using velocity enhancer. <i>Renewable Energy</i> , 2018, 115, 887-895.	4.3	25
25	Combustion characteristics of biomass fuels in a fixed bed micro-gasifier cook stove. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 995-1002.	0.7	22
26	Forecasting of Coal Consumption Using an Artificial Neural Network and Comparison with Various Forecasting Techniques. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2011, 33, 1305-1316.	1.2	16
27	Design construction and analysis of solar ridge concentrator photovoltaic (PV) system to improve battery charging performance. <i>Ecotoxicology and Environmental Safety</i> , 2016, 127, 187-192.	2.9	13
28	Experimental investigation of a copper sheet-laminated solar photovoltaic thermal water collector. <i>Energy Efficiency</i> , 2017, 10, 117-128.	1.3	12
29	Stability and consensus analysis on the Delphi study for the utilisation of renewable energy sources in India. <i>International Journal of Ambient Energy</i> , 1998, 19, 171-180.	1.4	11
30	Characterization, density and size effects of fuels in an advanced micro-gasifier stove. <i>Biofuels</i> , 2020, 11, 857-869.	1.4	11
31	A survey of social acceptance in using renewable energy sources for the new millennium. <i>Renewable Energy</i> , 2001, 24, 657-661.	4.3	10
32	A desalination method utilising low-grade waste heat energy. <i>Desalination and Water Treatment</i> , 2015, 56, 2037-2045.	1.0	10
33	An optimal electricity allocation model for sustainable resource use in India. <i>International Journal of Energy Research</i> , 2013, 37, 923-935.	2.2	9
34	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. <i>Journal of Thermal Science and Engineering Applications</i> , 2014, 6, .	0.8	9
35	On the development of a reliability based optimal renewable energy model for the sustainable energy scene in India. <i>International Journal of Ambient Energy</i> , 1997, 18, 153-164.	1.4	8
36	Comparative Energy Analysis of a Constant Air Volume (CAV) System and a Variable Air Volume (VAV) System for a Software Laboratory. <i>International Journal of Ventilation</i> , 2006, 5, 229-237.	0.2	7

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37	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
38	A prototype flash cooling desalination system using cooling water effluents. International Journal of Energy Research, 2013, 37, 1132-1140.	2.2	5
39	Computational modeling and performance evaluation of an advanced micro-gasifier cookstove with optimum air injection. Biofuels, 2021, 12, 1029-1039.	1.4	5
40	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
41	Numerical study of titanium oxide nanoparticle enhanced energy storage material in solar desalination. Materials Today: Proceedings, 2021, 43, 805-808.	0.9	5
42	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
43	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
44	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
45	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
46	Performance analysis of $1\text{-}\text{Sun}$ and $2\text{-}\text{Sun}$ ridge concentrator PV system with various geometrical conditions. International Journal of Energy Research, 2021, 45, 14561-14578.	2.2	3
47	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
48	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
49	A hybrid solar linear concentrator prototype in India. , 2010, , .		2
50	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
51	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
52	Design, embodied energy analysis and GHG emissions of solar central receiver power tower (CRPT) for a 5kW system. , 2013, , .		1
53	Design, development and testing of a 1kW wind turbine system. , 2013, , .		0
54	Market-acceptable cost for a hybrid solar linear concentrator in Indiaâ€”A sensitivity study. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 80-86.	1.8	0

#	ARTICLE	IF	CITATIONS
55	AN OPTIMAL RENEWABLE ENERGY MATHEMATICAL MODEL FOR SUSTAINABLE ENERGY. , 2000, , .		0
56	Experimental analysis of heat loss of a non-â€“ 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