

Sanjay Agrawal

List of Publications by Year in descending order

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45
papers

1,383
citations

393982

19
h-index

395343

33
g-index

46
all docs

46
docs citations

46
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy and exergy performance evaluation of a novel photovoltaic-thermoelectric system combined with tube and sheet serpentine water collector. International Journal of Green Energy, 2022, 19, 365-379.	2.1	8
2	A Critical Study of Pitch Control Techniques used for Horizontal Axis Wind Turbines. , 2022, , .		3
3	Performance enhancement of single-channel glazed photovoltaic thermal module using Whale Optimisation Algorithm and its comparative study. International Journal of Ambient Energy, 2021, 42, 424-434.	1.4	6
4	Performance assessment of PVT-air collector with V-groove absorber: A theoretical and experimental analysis. Heat and Mass Transfer, 2021, 57, 665-679.	1.2	19
5	Modeling and assessment of the thermo-electrical performance of a photovoltaic-thermal (PVT) system using different nanofluids. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	17
6	Performance analysis of the photovoltaic-thermoelectric system combined with serpentine type water collector. International Journal of Energy Research, 2021, 45, 19147-19164.	2.2	5
7	Analysis, Design, and Comparison of Different Building-Integrated Photovoltaic Thermal (BIPVT) System for Indian Meteorological Condition. Lecture Notes in Civil Engineering, 2020, , 145-157.	0.3	3
8	Photovoltaic-thermal (PV/T) technology: a comprehensive review on applications and its advancement. International Journal of Energy and Environmental Engineering, 2020, 11, 33-54.	1.3	129
9	Influence of parasitic resistance on dynamic response of a Quasi-Z-Source connected system. , 2020, , .		4
10	Impact of Number of Collector on Energy Profile from Concentrated Fully Covered Hybrid Photovoltaic (CHPV) System. , 2020, , .		1
11	A Bibliographical View on Research and Developments of Photovoltaic and Thermal Technologies as a Combined System: PV/T System. Lecture Notes in Electrical Engineering, 2020, , 713-722.	0.3	4
12	Performance Evaluation of Hybrid Photovoltaic Thermal Thermoelectric Collector Using Grasshopper Optimization Algorithm With Simulated Annealing. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.1	3
13	Exergetic Analysis of Glazed Photovoltaic Thermal (Single-Channel) Module Using Whale Optimization Algorithm and Genetic Algorithm. Lecture Notes in Electrical Engineering, 2020, , 591-600.	0.3	0
14	Impact of Photovoltaic Module Temperature on Size and Voltage Stability, a Case Study in Indian Climate. Applied Solar Energy (English Translation of Geliotekhnika), 2020, 56, 324-333.	0.2	3
15	Performance assessment of hybrid PVT air collector using GSA-CS algorithm. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012062.	0.3	0
16	Exergoeconomic and Enviroeconomic Analysis of Building Integrated photovoltaic Thermal (BIPVT) System and its Optimization. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012078.	0.3	1
17	A Novel Investigation and Comparative Study on Building Integrated Photovoltaic Thermal (BIPVT) System. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 460-470.	0.4	0
18	Soft computing based approach to evaluate the performance of solar PV module considering wind effect in laboratory condition. Energy Reports, 2018, 4, 252-259.	2.5	26

#	ARTICLE	IF	CITATIONS
19	PVT air collector integrated greenhouse dryers. Renewable and Sustainable Energy Reviews, 2018, 90, 142-159.	8.2	97
20	Optimization and Performance Characteristics of Building Integrated Photovoltaic Thermal (BIPVT) System in Cold Climatic Conditions. Asian Journal of Water, Environment and Pollution, 2018, 15, 63-72.	0.4	6
21	Experimental investigation of optimum wind speed for material dependent temperature loss compensation in PV modules. , 2017, , .		3
22	Parameter extraction and performance evaluation of glazed PVT module for Indian climatic conditions based on soft computing technique. , 2016, , .		3
23	A Novel investigation of building integrated photovoltaic thermal (BiPVT) system: A comparative study. Solar Energy, 2016, 131, 107-118.	2.9	50
24	An enhancement in electrical efficiency of photovoltaic module. , 2016, , .		1
25	Efficiency maximization and performance evaluation of hybrid dual channel semitransparent photovoltaic thermal module using fuzzyfied genetic algorithm. Energy Conversion and Management, 2016, 122, 449-461.	4.4	24
26	Design, modeling and performance analysis of dual channel semitransparent photovoltaic thermal hybrid module in the cold environment. Energy Conversion and Management, 2016, 114, 241-250.	4.4	53
27	A newer approach on cash flow diagram to investigate the effect of energy payback time and earned carbon credits on life cycle cost of different photovoltaic thermal array systems. Solar Energy, 2016, 124, 254-267.	2.9	20
28	Electrical energy analysis and optimization of single pass unglazed PVT system using evolutionary algorithm. , 2015, , .		3
29	Modeling and parameter optimization of hybrid single channel photovoltaic thermal module using genetic algorithms. Solar Energy, 2015, 113, 78-87.	2.9	62
30	Performance analysis in terms of carbon credit earned on annualized uniform cost of glazed hybrid photovoltaic thermal air collector. Solar Energy, 2015, 115, 329-340.	2.9	54
31	Parameter identification of the glazed photovoltaic thermal system using Genetic Algorithmâ€Fuzzy System (GAâ€FS) approach and its comparative study. Energy Conversion and Management, 2015, 105, 763-771.	4.4	32
32	Optimization of single channel glazed photovoltaic thermal (PVT) array using Evolutionary Algorithm (EA) and carbon credit earned by the optimized array. Energy Conversion and Management, 2015, 105, 303-312.	4.4	26
33	Exergetic and enviroeconomic analysis of semitransparent PVT array based on optimum air flow configuration and its comparative study. Solar Energy, 2015, 122, 1138-1145.	2.9	24
34	Optimization of design parameters of glazed hybrid photovoltaic thermal module using genetic algorithm. , 2014, , .		9
35	Enviroeconomic analysis and energy matrices of glazed hybrid photovoltaic thermal module air collector. Solar Energy, 2013, 92, 139-146.	2.9	61
36	Exergetic and enviroeconomic analysis of novel hybrid PVT array. Solar Energy, 2013, 88, 110-119.	2.9	79

#	ARTICLE	IF	CITATIONS
37	Overall energy, exergy and carbon credit analysis by different type of hybrid photovoltaic thermal air collectors. Energy Conversion and Management, 2013, 65, 628-636.	4.4	94
38	Indoor experimental analysis of glazed hybrid photovoltaic thermal tiles air collector connected in series. Energy and Buildings, 2012, 53, 145-151.	3.1	45
39	Exergoeconomic analysis of glazed hybrid photovoltaic thermal module air collector. Solar Energy, 2012, 86, 2826-2838.	2.9	68
40	Overall thermal energy and exergy analysis of hybrid photovoltaic thermal array. Solar Energy, 2012, 86, 1531-1538.	2.9	44
41	Carbon Credits Earned by Hybrid Photovoltaic Thermal Array. Journal of Fundamentals of Renewable Energy and Applications, 2012, 2, 1-5.	0.2	3
42	Analysis of Different Types of Hybrid Photovoltaic Thermal Air Collectors: A Comparative Study. Journal of Fundamentals of Renewable Energy and Applications, 2012, 2, 1-4.	0.2	13
43	Experimental validation of glazed hybrid micro-channel solar cell thermal tile. Solar Energy, 2011, 85, 3046-3056.	2.9	92
44	Energy and exergy analysis of hybrid micro-channel photovoltaic thermal module. Solar Energy, 2011, 85, 356-370.	2.9	183
45	Design, Fabrication and Testing of Micro-Channel Solar Cell Thermal (MCSCT) Tiles in Indoor Condition. , 2011, , .		2