

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 analysis of hybrid micro-channel photovoltaic thermal module. Solar Energy, 2011, 85, 356-370.	2.9	183
2	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
3	PVT air collector integrated greenhouse dryers. Renewable and Sustainable Energy Reviews, 2018, 90, 142-159.	8.2	97
4	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
5	Experimental validation of glazed hybrid micro-channel solar cell thermal tile. Solar Energy, 2011, 85, 3046-3056.	2.9	92
6	Exergetic and enviroeconomic analysis of novel hybrid PVT array. Solar Energy, 2013, 88, 110-119.	2.9	79
7	Exergoeconomic analysis of glazed hybrid photovoltaic thermal module air collector. Solar Energy, 2012, 86, 2826-2838.	2.9	68
8	Modeling and parameter optimization of hybrid single channel photovoltaic thermal module using genetic algorithms. Solar Energy, 2015, 113, 78-87.	2.9	62
9	Enviroeconomic analysis and energy matrices of glazed hybrid photovoltaic thermal module air collector. Solar Energy, 2013, 92, 139-146.	2.9	61
10	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
11	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
12	A Novel investigation of building integrated photovoltaic thermal (BiPVT) system: A comparative study. Solar Energy, 2016, 131, 107-118.	2.9	50
13	Indoor experimental analysis of glazed hybrid photovoltaic thermal tiles air collector connected in series. Energy and Buildings, 2012, 53, 145-151.	3.1	45
14	Overall thermal energy and exergy analysis of hybrid photovoltaic thermal array. Solar Energy, 2012, 86, 1531-1538.	2.9	44
15	Parameter identification of the glazed photovoltaic thermal system using Genetic Algorithm-Fuzzy System (GA-FS) approach and its comparative study. Energy Conversion and Management, 2015, 105, 763-771.	4.4	32
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Optimization of design parameters of glazed hybrid photovoltaic thermal module using genetic algorithm. , 2014, , .		9
25	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
26	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
27	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
28	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
29	Influence of parasitic resistance on dynamic response of a Quasi-Z-Source connected system. , 2020, , .		4
30	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
31	Electrical energy analysis and optimization of single pass unglazed PVT system using evolutionary algorithm. , 2015, , .		3
32	Parameter extraction and performance evaluation of glazed PVT module for Indian climatic conditions based on soft computing technique. , 2016, , .		3
33	Experimental investigation of optimum wind speed for material dependent temperature loss compensation in PV modules. , 2017, , .		3
34	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
35	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
36	Carbon Credits Earned by Hybrid Photovoltaic Thermal Array. Journal of Fundamentals of Renewable Energy and Applications, 2012, 2, 1-5.	0.2	3

#	ARTICLE	IF	CITATIONS
37	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
38	A Critical Study of Pitch Control Techniques used for Horizontal Axis Wind Turbines. , 2022, , .		3
39	Design, Fabrication and Testing of Micro-Channel Solar Cell Thermal (MCSCT) Tiles in Indoor Condition. , 2011, , .		2
40	An enhancement in electrical efficiency of photovoltaic module. , 2016, , .		1
41	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
42	Impact of Number of Collector on Energy Profile from Concentrated Fully Covered Hybrid Photovoltaic (CHPV) System. , 2020, , .		1
43	Performance assessment of hybrid PVT air collector using GSA-CS algorithm. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012062.	0.3	0
44	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
45	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