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Experimental performance of an ultra-low-cost solar photovoltaic-thermal (PVT) collector using aluminum minichannels and nonimaging optics

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#	Paper	IF	Citations
36	Thermodynamic evaluation of a concentrated photochemical-photovoltaic-thermochemical (CP-PV-T) system in the full-spectrum solar energy utilization. <i>Applied Energy</i> , 2020 , 279, 115778	10.7	10
35	Study on the overall energy and exergy performances of a novel water-based hybrid photovoltaic-thermal solar collector. <i>Energy Conversion and Management</i> , 2020 , 222, 113238	10.6	18
34	Numerical modeling and performance assessment of elongated compound parabolic concentrator based LCPVT system. <i>Renewable Energy</i> , 2021 , 167, 199-216	8.1	6
33	Influence of multiple factors on performance of photovoltaic-thermal modules. <i>Solar Energy</i> , 2021 , 214, 642-654	6.8	3
32	The CPV "toolbox" New Approaches to Maximizing Solar Resource Utilization with Application-Oriented Concentrator Photovoltaics. <i>Energies</i> , 2021 , 14, 795	3.1	0
31	A novel porous channel to optimize the cooling performance of PV modules. <i>Energy and Built Environment</i> , 2021 , 3, 210-210	6.3	4
30	Performance improvement of vapor-injection heat pump system by employing PVT collector/evaporator for residential heating in cold climate region. <i>Energy</i> , 2021 , 219, 119636	7.9	15
29	A Review on the Heat Pipe Photovoltaic/Thermal (PV/T) System. <i>Journal of Thermal Science</i> , 2021 , 30, 1469-1490	1.9	1
28	Comparative study of a tropical-climate natural-convection hybrid PV/T system operating with full or partial (tube-only) water coil insulation and two different sizes of thermal energy reservoirs. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1	2	0
27	Photovoltaic thermal solar air heater under external recycle: A performance study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-17	1.6	1
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24	A review on the influence of the components on the performance of PVT modules. <i>Solar Energy</i> , 2021 , 226, 365-388	6.8	4
23	Analysis of an uncovered photovoltaic/thermal solar system powering a seawater reverse osmosis desalination plant. <i>Environmental Progress and Sustainable Energy</i> , e13753	2.5	1
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21	Co-generation ability investigation of the novel structured PVT heat pump system and its effect on the "Carbon neutral" strategy of Shanghai. <i>Energy</i> , 2022 , 239, 121863	7.9	3
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19	Energy, exergy, economic, environmental (4E) approach to assessing the performance of a photovoltaic-thermal system using a novel ternary nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 50, 101804	4.7	0
18	Energy and exergy analysis of a hybrid photovoltaic/thermal-air collector modified with nano-enhanced latent heat thermal energy storage unit. <i>Journal of Energy Storage</i> , 2021 , 45, 103467	7.8	8
17	A detailed review on the performance of photovoltaic/thermal system using various cooling methods. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101844	4.7	0
16	Photovoltaic-Battery-Ultracapacitor-Diesel Hybrid Generation System for Mobile Hospital Energy Supply. <i>Electronics (Switzerland)</i> , 2022 , 11, 390	2.6	0
15	Development and evaluation of an integrated operation strategy for a poly-generation system with electrical and thermal storage systems. <i>Energy Conversion and Management</i> , 2022 , 256, 115384	10.6	2
14	Cooling technologies for enhancing photovoltaic thermal (PVT) performance: a state of the art. <i>International Journal of Energy and Environmental Engineering</i> , 1	4	1
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