

Hussein A Kazem

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

3,919
citations

38
h-index

61
g-index

131
ext. papers

5,051
ext. citations

5.4
avg, IF

6.46
L-index

#	Paper	IF	Citations
119	Performance analysis of photovoltaic thermal (PVT) water collectors. <i>Energy Conversion and Management</i> , 2014 , 78, 641-651	10.6	235
118	Evaluation of the nanofluid and nano-PCM based photovoltaic thermal (PVT) system: An experimental study. <i>Energy Conversion and Management</i> , 2017 , 151, 693-708	10.6	214
117	Photovoltaic/Thermal (PV/T) systems: Status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 109-130	16.2	211
116	An experimental investigation of SiC nanofluid as a base-fluid for a photovoltaic thermal PV/T system. <i>Energy Conversion and Management</i> , 2017 , 142, 547-558	10.6	165
115	Effect of dust pollutant type on photovoltaic performance. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 41, 735-744	16.2	137
114	Modeling and experimental validation of a PVT system using nanofluid coolant and nano-PCM. <i>Solar Energy</i> , 2019 , 177, 178-191	6.8	135
113	Performance analysis of solar drying system for red chili. <i>Solar Energy</i> , 2014 , 99, 47-54	6.8	128
112	A review of optimum sizing of hybrid PV/Wind renewable energy systems in oman. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 185-193	16.2	114
111	Comparative study to use nano-(Al ₂ O ₃ , CuO, and SiC) with water to enhance photovoltaic thermal PV/T collectors. <i>Energy Conversion and Management</i> , 2017 , 148, 963-973	10.6	108
110	Comparison of prediction methods of PV/T nanofluid and nano-PCM system using a measured dataset and artificial neural network. <i>Solar Energy</i> , 2018 , 162, 378-396	6.8	107
109	Sizing of a standalone photovoltaic/battery system at minimum cost for remote housing electrification in Sohar, Oman. <i>Energy and Buildings</i> , 2013 , 61, 108-115	7	100
108	Experimental investigation of using nano-PCM/nanofluid on a photovoltaic thermal system (PVT): Technical and economic study. <i>Thermal Science and Engineering Progress</i> , 2019 , 11, 213-230	3.6	94
107	Performance and feasibility assessment of a 1.4 kW roof top grid-connected photovoltaic power system under desertic weather conditions. <i>Energy and Buildings</i> , 2014 , 82, 123-129	7	91
106	Renewable energy in Oman: Status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3465-3469	16.2	85
105	The impact of oil price fluctuations on common renewable energies in GCC countries. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 989-1007	16.2	84
104	Experimental analysis of the effect of dust's physical properties on photovoltaic modules in Northern Oman. <i>Solar Energy</i> , 2016 , 139, 68-80	6.8	77
103	Comparison study of indoor/outdoor experiments of a photovoltaic thermal PV/T system containing SiC nanofluid as a coolant. <i>Energy</i> , 2018 , 151, 33-44	7.9	75

102	Climate change: The game changer in the Gulf Cooperation Council Region. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 76, 555-576	16.2	74
101	Dust effect on photovoltaic utilization in Iraq: Review article. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 734-749	16.2	73
100	Actual performance and characteristic of a grid connected photovoltaic power system in the tropics: A short term evaluation. <i>Energy Conversion and Management</i> , 2013 , 71, 115-119	10.6	68
99	The effect of dust accumulation and cleaning methods on PV panels outcomes based on an experimental study of six locations in Northern Oman. <i>Solar Energy</i> , 2019 , 187, 30-38	6.8	64
98	Artificial neural network modeling and analysis of photovoltaic/thermal system based on the experimental study. <i>Energy Conversion and Management</i> , 2019 , 186, 368-379	10.6	63
97	Single slope solar distillator productivity improvement using phase change material and Al ₂ O ₃ nanoparticle. <i>Solar Energy</i> , 2018 , 164, 370-381	6.8	60
96	Evaluation and analysis of nanofluid and surfactant impact on photovoltaic-thermal systems. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100392	5.6	59
95	Mathematical and neural network modeling for predicting and analyzing of nanofluid-nano PCM photovoltaic thermal systems performance. <i>Renewable Energy</i> , 2020 , 145, 963-980	8.1	59
94	Techno-economic feasibility analysis of 1 MW photovoltaic grid connected system in Oman. <i>Case Studies in Thermal Engineering</i> , 2017 , 10, 131-141	5.6	58
93	Optimum design and evaluation of hybrid solar/wind/diesel power system for Masirah Island. <i>Environment, Development and Sustainability</i> , 2017 , 19, 1761-1778	4.5	56
92	A review of dust accumulation and cleaning methods for solar photovoltaic systems. <i>Journal of Cleaner Production</i> , 2020 , 276, 123187	10.3	55
91	Status and future prospects of renewable energy in Iraq. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6007-6012	16.2	54
90	Evaluation and analysis of water-based photovoltaic/thermal (PV/T) system. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100401	5.6	51
89	Water solar distiller productivity enhancement using concentrating solar water heater and phase change material (PCM). <i>Case Studies in Thermal Engineering</i> , 2015 , 5, 151-159	5.6	49
88	Traffic and outdoor air pollution levels near highways in Baghdad, Iraq. <i>Environment, Development and Sustainability</i> , 2018 , 20, 589-603	4.5	44
87	Numerical study on the effect of operating nanofluids of photovoltaic thermal system (PV/T) on the convective heat transfer. <i>Case Studies in Thermal Engineering</i> , 2018 , 12, 405-413	5.6	44
86	Techno-economical assessment of grid connected photovoltaic power systems productivity in Sohar, Oman. <i>Sustainable Energy Technologies and Assessments</i> , 2013 , 3, 61-65	4.7	43
85	Techno-economical assessment of grid connected PV/T using nanoparticles and water as base-fluid systems in Malaysia. <i>International Journal of Sustainable Energy</i> , 2018 , 37, 558-575	2.7	42

84	Nanofluid based grid connected PV/T systems in Malaysia: A techno-economical assessment. <i>Sustainable Energy Technologies and Assessments</i> , 2018 , 28, 81-95	4.7	42
83	Influence of the base fluid on the thermo-physical properties of PV/T nanofluids with surfactant. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100340	5.6	39
82	Design and assessment of solar concentrator distilling system using phase change materials (PCM) suitable for desertic weathers. <i>Desalination and Water Treatment</i> , 2016 , 57, 14897-14907		38
81	Comparison of prediction methods of photovoltaic power system production using a measured dataset. <i>Energy Conversion and Management</i> , 2017 , 148, 1070-1081	10.6	38
80	Impact of dust ingredient on photovoltaic performance: An experimental study. <i>Solar Energy</i> , 2020 , 195, 651-659	6.8	32
79	A comparison study based on artificial neural network for assessing PV/T solar energy production. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100407	5.6	31
78	Generating Electricity Using Photovoltaic Solar Plants in Iraq 2018 ,		31
77	Predictive Models for Photovoltaic Electricity Production in Hot Weather Conditions. <i>Energies</i> , 2017 , 10, 971	3.1	27
76	Energy, exergy and efficiency of four photovoltaic thermal collectors with different energy storage material. <i>Journal of Energy Storage</i> , 2020 , 29, 101245	7.8	25
75	A Novel Numerical Algorithm for Optimal Sizing of a Photovoltaic/Wind/Diesel Generator/Battery Microgrid Using Loss of Load Probability Index. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-8	2.1	24
74	Experimental investigation of dust pollutants and the impact of environmental parameters on PV performance: an experimental study. <i>Environment, Development and Sustainability</i> , 2018 , 20, 155-174	4.5	23
73	Design, measurement and evaluation of photovoltaic pumping system for rural areas in Oman. <i>Environment, Development and Sustainability</i> , 2017 , 19, 1041-1053	4.5	22
72	Experimental and deep learning artificial neural network approach for evaluating grid-connected photovoltaic systems. <i>International Journal of Energy Research</i> , 2019 , 43, 8572-8591	4.5	21
71	A novel model and experimental validation of dust impact on grid-connected photovoltaic system performance in Northern Oman. <i>Solar Energy</i> , 2020 , 206, 564-578	6.8	20
70	Harmonic Mitigation Techniques Applied to Power Distribution Networks. <i>Advances in Power Electronics</i> , 2013 , 2013, 1-10		20
69	Evaluation of the electrical performance of a photovoltaic thermal system using nano-enhanced paraffin and nanofluids. <i>Case Studies in Thermal Engineering</i> , 2020 , 21, 100678	5.6	18
68	Evaluation and comparison of different flow configurations PVT systems in Oman: A numerical and experimental investigation. <i>Solar Energy</i> , 2020 , 208, 58-88	6.8	18
67	Analysis and forecasting of weather conditions in Oman for renewable energy applications. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100355	5.6	18

66	Modeling and Characterization of a Photovoltaic Array Based on Actual Performance Using Cascade-Forward Back Propagation Artificial Neural Network. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015 , 137,	2.3	17
65	Photovoltaic/Thermal (PV/T) Systems 2019 ,		17
64	Experimental evaluation of dust composition impact on photovoltaic performance in Iraq. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-22	1.6	14
63	Effect of Shadows on the Performance of Solar Photovoltaic 2017 , 379-385		14
62	The effect of dust components and contaminants on the performance of photovoltaic for the four regions in Iraq: a practical study. <i>Renewable Energy and Environmental Sustainability</i> , 2020 , 5, 3	2.5	12
61	Novel criteria for assessing PV/T solar energy production. <i>Case Studies in Thermal Engineering</i> , 2019 , 16, 100547	5.6	12
60	The Impact of Using Solar Colored Filters to Cover the PV Panel in Its Outcomes 2016 , 2, 464-469		11
59	Evaluation of aging and performance of grid-connected photovoltaic system northern Oman: Seven years experimental study. <i>Solar Energy</i> , 2020 , 207, 1247-1258	6.8	10
58	Controlling the melting and solidification points temperature of PCMs on the performance and economic return of the water-cooled photovoltaic thermal system. <i>Solar Energy</i> , 2021 , 224, 1344-1357	6.8	10
57	Optimization of photovoltaic modules tilt angle for Oman 2013 ,		9
56	Effect of fin geometry on natural convection heat transfer in electrical distribution transformer: Numerical study and experimental validation. <i>Thermal Science and Engineering Progress</i> , 2019 , 14, 100414	3.6	8
55	Evaluation of the Economic and Environmental Aspects of Using Photovoltaic Water Pumping System. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 715-723	0.2	8
54	Modeling of Daily Solar Energy System Prediction using Soft Computing Methods for Oman. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2016 , 13, 237-244	0.2	8
53	Mathematical and neural network models for predicting the electrical performance of a PV/T system. <i>International Journal of Energy Research</i> , 2019 , 43, 8100	4.5	6
52	Photovoltaic Thermal PV/T systems: A review 2017 , 2, 62-67		6
51	A review of photovoltaic thermal systems: Achievements and applications. <i>International Journal of Energy Research</i> , 2021 , 45, 1269-1308	4.5	6
50	Technoeconomical Assessment of Optimum Design for Photovoltaic Water Pumping System for Rural Area in Oman. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-8	2.1	5
49	Comparison and evaluation of solar photovoltaic thermal system with hybrid collector: An experimental study. <i>Thermal Science and Engineering Progress</i> , 2021 , 22, 100845	3.6	5

48	Advanced photovoltaic thermal collectors. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020 , 234, 206-213	1.5	5
47	Numerical and experimental evaluation of nanofluids based photovoltaic/thermal systems in Oman: Using silicone-carbide nanoparticles with water-ethylene glycol mixture. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101009	5.6	5
46	Levelized electricity cost for photovoltaic system in Sohar-Oman 2013 ,		4
45	Prognostic of diesel engine emissions and performance based on an intelligent technique for nanoparticle additives. <i>Energy</i> , 2022 , 238, 121855	7.9	4
44	A novel intelligent transport system charging scheduling for electric vehicles using Grey Wolf Optimizer and Sail Fish Optimization algorithms. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 3555-3575	1.6	4
43	Dust Effect on the Performance of Photovoltaic. <i>Advanced Materials Research</i> , 2014 , 875-877, 1908-1911	0.5	3
42	The Impact of Dust Physical Properties on Photovoltaic Modules Outcomes. <i>Innovative Renewable Energy</i> , 2020 , 495-506	0.3	3
41	Investigation of a nanofluid-based photovoltaic thermal system using single-wall carbon nanotubes: An experimental study. <i>International Journal of Energy Research</i> , 2021 , 45, 10285-10303	4.5	3
40	The possibilities of using nano-CuO as coolants for PVT system: An experimental study. <i>Journal of Physics: Conference Series</i> , 2021 , 1973, 012123	0.3	3
39	Prediction and evaluation of photovoltaic-thermal energy systems production using artificial neural network and experimental dataset. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101297	5.6	3
38	The influence of dust physical specifications photovoltaic modules performance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 928, 022123	0.4	2
37	Photovoltaic panel type influence on the performance degradation due dust accumulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 928, 022092	0.4	2
36	Linear and Nonlinear Modeling for Solar Energy Prediction for Zone, Region and Global Areas 2016 , 21-34		2
35	An Improved Method of Passive Input Current Waveshaping for Single-Phase Rectifier 2007 ,		2
34	Long-term power forecasting using FRNN and PCA models for calculating output parameters in solar photovoltaic generation.. <i>Heliyon</i> , 2022 , 8, e08803	3.6	2
33	Stability and thermal conductivity of different nano-composite material prepared for thermal energy storage applications. <i>South African Journal of Chemical Engineering</i> , 2022 , 39, 72-89	3.2	2
32	Modeling and experimental validation of dust impact on solar cell performance. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-17	1.6	2
31	Techno-economical study of solar water pumping system: optimum design, evaluation, and comparison. <i>Renewable Energy and Environmental Sustainability</i> , 2021 , 6, 41	2.5	2

30	Evaluation and Design Criteria of Photovoltaic Thermal (PV/T). <i>Materials Today: Proceedings</i> , 2019 , 19, 1111-1118	1.4	2
29	Evaluation of PV output in terms of environmental impact based on mathematical and artificial neural network models. <i>International Journal of Energy Research</i> , 2021 , 45, 396-412	4.5	2
28	Effect of dust and cleaning methods on mono and polycrystalline solar photovoltaic performance: An indoor experimental study. <i>Solar Energy</i> , 2022 , 236, 626-643	6.8	2
27	Step-By-Step Guide to Model Photovoltaic Panels: An Up-To-Date Comparative Review Study. <i>IEEE Journal of Photovoltaics</i> , 2022 , 1-14	3.7	2
26	Nano-Iron Oxide-Ethylene Glycol-Water Nanofluid Based Photovoltaic Thermal (PV/T) System with Spiral Flow Absorber: An Energy and Exergy Analysis. <i>Energies</i> , 2022 , 15, 3870	3.1	2
25	Artificial Neural Network Modelling and Experimental Evaluation of Dust and Thermal Energy Impact on Monocrystalline and Polycrystalline Photovoltaic Modules. <i>Energies</i> , 2022 , 15, 4138	3.1	2
24	Investigating the Effect of Titanium Dioxide (TiO ₂) Pollution on the Performance of the Mono-crystalline Solar Module. <i>E3S Web of Conferences</i> , 2017 , 23, 01005	0.5	1
23	Environmental Conditions and Its Effect on PV Performance 2018 , 83-129		1
22	Photovoltaic Module Electrical Efficiency Enhancement Using Nano Fluids and Nano-Paraffin. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022 , 961, 012065	0.3	1
21	Freshwater production and solar disinfection of water released from the air-conditioning cooling system: an experimental investigation. <i>Renewable Energy and Environmental Sustainability</i> , 2020 , 5, 9	2.5	1
20	Nano enhanced fluids and latent heat storage material for photovoltaic modules: A case study and parametric analysis. <i>International Journal of Energy Research</i> , 2021 , 45, 12944-12967	4.5	1
19	Research perspectives and state-of-the-art methods in photovoltaic microgrids. <i>World Journal of Engineering</i> , 2019 , 17, 223-235	1.8	1
18	Evaluation of Dust Elements on Photovoltaic Module Performance: an Experimental Study. <i>Renewable Energy and Environmental Sustainability</i> , 2021 , 6, 30	2.5	1
17	Solar Photovoltaic Technology Principles 2018 , 47-82		1
16	Prediction of grid-connected photovoltaic performance using artificial neural networks and experimental dataset considering environmental variation. <i>Environment, Development and Sustainability</i> , 1	4.5	1
15	Effect of CuO-water-ethylene glycol nanofluids on the performance of photovoltaic/thermal energy system: an experimental study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 3673-3691	1.6	1
14	Teaching Photovoltaic Principles at the University 2017 , 113-145		0
13	Advancements in High-Performance Hybrid Photovoltaic/Thermal Solar Collector Technology. <i>Innovative Renewable Energy</i> , 2022 , 13-18	0.3	0

- 12 Techno-Economic Assessment of Photovoltaic Systems in Oman: Review Article **2016**, 541-550
- 11 Status of Renewable Energy in Iraq **2018**, 35-45
- 10 Photovoltaic Experiences in Iraq Neighborhood Countries **2018**, 131-183
- 9 PV/T Feasibility and Cost Assessment **2019**, 153-171
- 8 The Impact of Climatic Conditions on PV/PVT Outcomes **2019**, 173-222
- 7 PV/T Principles and Design **2019**, 65-123
- 6 Advanced PV/T Systems **2019**, 125-151
- 5 Applications and PV/T Systems **2019**, 223-263
- 4 Advances in Nano-Materials Used in Photovoltaic/Thermal Systems. *Advances in Material Research and Technology*, **2020**, 105-133 0.4
- 3 Evaluation and analysis of freshwater from atmospheric moisture as byproduct of air-cooling units in Oman. *Renewable Energy and Environmental Sustainability*, **2021**, 6, 19 2.5
- 2 An Overview of Wind Resource Assessments With Special Reference to The Emirate of Ajman, UAE. *Renewable Energy and Environmental Sustainability*, **2021**, 6, 32 2.5
- 1 Evaluation of Omani Experience in Using Grid-Connected Photovoltaic Stations. *Innovative Renewable Energy*, **2022**, 53-59 0.3