

M Hasanuzzaman

List of Publications by Year in descending order

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127
papers

6,402
citations

61984

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69250

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128
docs citations

128
times ranked

5365
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic and environment assessment of landfill and sewage treatment plant-based combined power generation system: a case study for Dhaka. Biomass Conversion and Biorefinery, 2024, 14, 701-717.	4.6	0
2	Effect of tilt angle on the performance and electrical parameters of a PV module: Comparative indoor and outdoor experimental investigation. Energy and Built Environment, 2022, 3, 278-290.	5.9	55
3	Real-Time Experimental Performance Assessment of a Photovoltaic Thermal System Cascaded With Flat Plate and Heat Pipe Evacuated Tube Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	10
4	Global Prospects, Advance Technologies and Policies of Energy-Saving and Sustainable Building Systems: A Review. Sustainability, 2022, 14, 1316.	3.2	19
5	Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances. Sustainability, 2022, 14, 1450.	3.2	17
6	Experimental investigation on the effect of using chemical dyes on the performance of single-slope passive solar still. Solar Energy, 2022, 233, 71-83.	6.1	15
7	Heat exchanger for solar thermal energy. , 2022, , 55-91.		0
8	Solar thermal energy conversion. , 2022, , 25-54.		1
9	Solar thermal power plant. , 2022, , 151-213.		0
10	Solar thermal energy storage. , 2022, , 215-236.		0
11	Solar water desalination system. , 2022, , 267-291.		0
12	Solar thermal collector. , 2022, , 93-122.		3
13	Solar drying system. , 2022, , 237-266.		0
14	Environmental impact assessment of solar thermal energy. , 2022, , 323-360.		0
15	Fundamentals of thermal energy and solar system integration. , 2022, , 1-24.		0
16	Economic assessment of solar thermal energy technologies. , 2022, , 293-322.		0
17	Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review. Clean Technologies and Environmental Policy, 2022, 24, 1987-2009.	4.1	19
18	Estimation of Greenhouse Gas Emissions of Petrol, Biodiesel and Battery Electric Vehicles in Malaysia Based on Life Cycle Approach. Sustainability, 2022, 14, 5783.	3.2	6

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19	Performance assessment of solar chimney power plants with natural thermal energy storage materials on ground: CFD analysis with experimental validation. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 752-759.	2.6	4
20	Global prospects, challenges and progress of photovoltaic thermal system. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102426.	2.7	7
21	Global Challenges of Current Building-Integrated Solar Water Heating Technologies and Its Prospects: A Comprehensive Review. <i>Energies</i> , 2022, 15, 5125.	3.1	12
22	Challenges of Electric Vehicles and Their Prospects in Malaysia: A Comprehensive Review. <i>Sustainability</i> , 2022, 14, 8320.	3.2	26
23	Global Challenges and Prospects of Photovoltaic Materials Disposal and Recycling: A Comprehensive Review. <i>Sustainability</i> , 2022, 14, 8567.	3.2	18
24	Energy, economic, and environmental analysis of 10-MW biomass gasification based power generation in Malaysia. <i>Energy and Environment</i> , 2021, 32, 295-337.	4.6	19
25	Analysis of energy consumption and potential energy savings of an institutional building in Malaysia. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 805-820.	6.4	56
26	Modeling, simulation and outdoor experimental performance analysis of a solar-assisted process heating system for industrial process heat. <i>Renewable Energy</i> , 2021, 164, 656-673.	8.9	25
27	Global prospects and challenges of latent heat thermal energy storage: a review. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 531-559.	4.1	27
28	Feasibility analysis of rooftop solar photovoltaic for non-academic building in an educational institution in Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 673, 012005.	0.3	1
29	Global advancement of solar drying technologies and its future prospects: A review. <i>Solar Energy</i> , 2021, 221, 559-582.	6.1	66
30	Real time experimental performance investigation of a NePCM based photovoltaic thermal system: An energetic and exergetic approach. <i>Renewable Energy</i> , 2021, 172, 71-87.	8.9	46
31	Modelling and experimental performance investigation of a transpired solar collector and underground heat exchanger assisted hybrid evaporative cooling system. <i>Journal of Building Engineering</i> , 2021, 44, 102620.	3.4	7
32	Modern energy conversion technologies. , 2020, , 19-39.		8
33	Energy demand. , 2020, , 41-87.		9
34	Energy economics. , 2020, , 167-178.		3
35	World energy policies. , 2020, , 179-198.		3
36	Energy storage technologies. , 2020, , 125-165.		20

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37	Modelling and performance analysis of parabolic trough solar concentrator for different heat transfer fluids under Malaysian condition. <i>Renewable Energy</i> , 2020, 149, 22-41.	8.9	17
38	Design, development and effects of operational conditions on the performance of concentrated solar collector based desalination system operating in Iraq. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100886.	2.7	10
39	Prospects, progress, challenges and policies for clean power generation from biomass resources. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 1229-1253.	4.1	39
40	Numerical investigation on the effect of different parameters in enhancing heat transfer performance of photovoltaic thermal systems. <i>Renewable Energy</i> , 2019, 132, 284-295.	8.9	59
41	Effect of nanofluid properties and mass-flow rate on heat transfer of parabolic-trough concentrating solar system. <i>Journal of Naval Architecture and Marine Engineering</i> , 2019, 16, 33-44.	1.2	2
42	Modelling and optimization of Searaser wave energy converter based hydroelectric power generation for Saint Martin's Island in Bangladesh. <i>Ocean Engineering</i> , 2019, 192, 106289.	4.3	16
43	Global advancement of solar thermal energy technologies for industrial process heat and its future prospects: A review. <i>Energy Conversion and Management</i> , 2019, 195, 885-908.	9.2	278
44	Numerical and experimental investigation of the effect of operating conditions on performance of PVT and PVT-PCM. <i>Renewable Energy</i> , 2019, 143, 827-841.	8.9	131
45	Effect of nanofluids on heat transfer and cooling system of the photovoltaic/thermal performance. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1920-1946.	2.8	46
46	Numerical and outdoor real time experimental investigation of performance of PCM based PVT system. <i>Solar Energy</i> , 2019, 179, 135-150.	6.1	137
47	An application of TPB constructs on energy-saving behavioural intention among university office building occupants: a pilot study in Malaysian tropical climate. <i>Journal of Housing and the Built Environment</i> , 2019, 34, 533-569.	1.8	17
48	Investigation of the potential induced degradation of on-site aged polycrystalline PV modules operating in Malaysia. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 119, 283-294.	5.0	29
49	Water/MWCNT nanofluid based cooling system of PVT: Experimental and numerical research. <i>Renewable Energy</i> , 2018, 121, 286-300.	8.9	193
50	A comparative investigation on in-situ and laboratory standard test of the potential induced degradation of crystalline silicon photovoltaic modules. <i>Renewable Energy</i> , 2018, 127, 102-113.	8.9	25
51	Energy policy and alternative energy in Malaysia: Issues and challenges for sustainable growth – An update. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 3021-3031.	16.4	112
52	Effect of high irradiation and cooling on power, energy and performance of a PVT system. <i>Renewable Energy</i> , 2018, 116, 552-569.	8.9	79
53	Effect of high irradiation on photovoltaic power and energy. <i>International Journal of Energy Research</i> , 2018, 42, 1115-1131.	4.5	53
54	Global modern monitoring systems for PV based power generation: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4142-4158.	16.4	65

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55	Techno-economic Analysis of Evacuated Tube Solar Water Heater using F-chart Method. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012016.	0.6	8
56	Design and Analysis of Photovoltaic (PV) Power Plant at Different Locations in Malaysia. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012019.	0.6	1
57	Numerical and experimental investigation of the effect of tilt angle on the performance of PV systems. , 2018, , .		1
58	Effect of Different Factors on the Leakage Current Behavior of Silicon Photovoltaic Modules at High Voltage Stress. IEEE Journal of Photovoltaics, 2018, 8, 1259-1265.	2.5	15
59	Energy and exergy analysis of the PVT system: Effect of nanofluid flow rate. Solar Energy, 2018, 169, 217-230.	6.1	150
60	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. Renewable Energy, 2018, 129, 419-430.	8.9	24
61	A Three-Dimensional Comprehensive Numerical Investigation of Different Operating Parameters on the Performance of a Photovoltaic Thermal System With Pancake Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.8	42
62	Numerical and experimental investigation on the performance of a photovoltaic thermal collector with parallel plate flow channel under different operating conditions in Malaysia. Solar Energy, 2017, 144, 517-528.	6.1	141
63	Effects of operational conditions on the energy efficiency of photovoltaic modules operating in Malaysia. Journal of Cleaner Production, 2017, 143, 912-924.	9.3	102
64	Experimental investigation of the effect of partial shading on photovoltaic performance. IET Renewable Power Generation, 2017, 11, 912-921.	3.1	57
65	European smart grid prospects, policies, and challenges. Renewable and Sustainable Energy Reviews, 2017, 67, 776-790.	16.4	75
66	Global electricity demand, generation, grid system, and renewable energy policies: a review. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e222.	4.1	38
67	Techno-economic analysis and environmental impact assessment of a 10MW biomass-based power plant in Malaysia. Journal of Cleaner Production, 2017, 141, 502-513.	9.3	81
68	Assisted convective heat transfer and entropy generation in a solar collector filled with nanofluid. Journal of Naval Architecture and Marine Engineering, 2016, 13, 135-150.	1.2	2
69	3D numerical study in a solar collector: effect of prandtl number. , 2016, , .		0
70	Global advancement of cooling technologies for PV systems: A review. Solar Energy, 2016, 137, 25-45.	6.1	259
71	Recent progresses and achievements in photovoltaic-phase change material technology: A review with special treatment on photovoltaic thermal-phase change material systems. Energy Conversion and Management, 2016, 126, 177-204.	9.2	139
72	Prospects, progress, policies, and effects of rural electrification in Bangladesh. Renewable and Sustainable Energy Reviews, 2016, 65, 553-567.	16.4	20

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73	Impact of Tilt Angle on the Performance of Photovoltaic Modules in Malaysia: a review. , 2016, , .		9
74	Pretreatment of biomass for power generation. , 2016, , .		2
75	Onset of transition from laminar to chaos in MHD mixed convection of a lid-driven trapezoidal cavity filled with Cu-water nanofluid. AIP Conference Proceedings, 2016, , .	0.4	2
76	Energy consumption, energy saving and emission reduction of a garment industrial building in Bangladesh. Energy, 2016, 112, 91-100.	8.8	63
77	Impact of renewable energy on rural electrification in Malaysia: a review. Clean Technologies and Environmental Policy, 2015, 17, 859-871.	4.1	63
78	Effects of various parameters on PV-module power and efficiency. Energy Conversion and Management, 2015, 103, 348-358.	9.2	286
79	Photovoltaic power generation and its economic and environmental future in Bangladesh. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	33
80	Modelling and analysis of the effect of different parameters on a parabolic-trough concentrating solar system. RSC Advances, 2015, 5, 36540-36546.	3.6	41
81	Global prospects, progress, policies, and environmental impact of solar photovoltaic power generation. Renewable and Sustainable Energy Reviews, 2015, 41, 284-297.	16.4	531
82	Leakage Current Paths in PV Transformer-Less Single-Phase Inverter Topology and Its Mitigation through PWM for Switching. International Journal of Power Electronics and Drive Systems, 2015, 6, 148.	0.6	4
83	Global Renewable Energy-Based Electricity Generation and Smart Grid System for Energy Security. Scientific World Journal, The, 2014, 2014, 1-13.	2.1	60
84	Enhance photovoltaic/thermal system performance by using nanofluid. , 2014, , .		10
85	Temperature effect of photovoltaic module under partial shading operation condition. , 2014, , .		5
86	Factors affecting the pv based power generation. , 2014, , .		19
87	Effect of Heat-Generating Solid Body on Mixed Convection Flow in a Ventilated Cavity. Heat Transfer Engineering, 2013, 34, 1249-1261.	1.9	14
88	Effect on insulation of photovoltaic thermal water collector (pvtw). , 2013, , .		1
89	Alternative energy resources in Bangladesh and future prospect. Renewable and Sustainable Energy Reviews, 2013, 25, 698-707.	16.4	90
90	Energy and emission analysis in the malaysian food industries. Environmental Progress and Sustainable Energy, 2013, 32, 777-783.	2.3	2

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91	Thermal performance improvement of solar thermal power generation. , 2013, , .		2
92	An Analysis of Actual Energy Savings in an Indian Cement Industry Through an Energy Efficiency Index. International Journal of Green Energy, 2012, 9, 829-840.	3.8	3
93	Finite Element Simulation of Magnetohydrodynamic Mixed Convection in a Double-Lid Driven Enclosure With a Square Heat-Generating Block. Journal of Heat Transfer, 2012, 134, .	2.1	9
94	Effects of Lewis number on heat and mass transfer in a triangular cavity. International Communications in Heat and Mass Transfer, 2012, 39, 1213-1219.	5.6	30
95	An energy flow analysis in a paper-based industry. Clean Technologies and Environmental Policy, 2012, 14, 905-916.	4.1	13
96	Energy savings in the combustion based process heating in industrial sector. Renewable and Sustainable Energy Reviews, 2012, 16, 4527-4536.	16.4	97
97	Evaluation of the effect of nanofluid-based absorbers on direct solar collector. International Journal of Heat and Mass Transfer, 2012, 55, 5899-5907.	4.8	259
98	Magnetohydrodynamic natural convection in trapezoidal cavities. International Communications in Heat and Mass Transfer, 2012, 39, 1384-1394.	5.6	73
99	A review of thermodynamics and heat transfer in solar refrigeration system. Renewable and Sustainable Energy Reviews, 2012, 16, 5639-5648.	16.4	49
100	Technologies to recover exhaust heat from internal combustion engines. Renewable and Sustainable Energy Reviews, 2012, 16, 5649-5659.	16.4	313
101	Heat Transfer Enhancement of Nanofluids in a Lid-Driven Square Enclosure. Numerical Heat Transfer; Part A: Applications, 2012, 62, 973-991.	2.1	29
102	Simulation of mixed convection heat transfer in a horizontal channel with an open cavity containing a heated hollow cylinder. Heat Transfer - Asian Research, 2012, 41, 339-353.	2.8	11
103	Energy, economic, and environmental analysis of the Malaysian industrial compressed-air systems. Clean Technologies and Environmental Policy, 2012, 14, 195-210.	4.1	11
104	MHD natural convection in an enclosure from two semi-circular heaters on the bottom wall. International Journal of Heat and Mass Transfer, 2012, 55, 1844-1854.	4.8	50
105	Application of Computational Fluid Dynamics (CFD) for nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 4104-4115.	4.8	229
106	Effects of Reynolds and Prandtl number on mixed convection in a ventilated cavity with a heat-generating solid circular block. Applied Mathematical Modelling, 2012, 36, 2056-2066.	4.2	46
107	Analysis of energy, exergy and energy savings of a fire tube boiler. , 2011, , .		5
108	Effectiveness enhancement of heat exchanger by using nanofluids. , 2011, , .		12

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109	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. Energy, 2011, 36, 5233-5238.	8.8	77
110	Numerical analysis of fluid flow due to mixed convection in a lid-driven cavity having a heated circular hollow cylinder. International Communications in Heat and Mass Transfer, 2011, 38, 1093-1103.	5.6	91
111	Energy savings and emissions reductions for rewinding and replacement of industrial motor. Energy, 2011, 36, 233-240.	8.8	127
112	Analysis of electrical motors load factors and energy savings in an Indian cement industry. Energy, 2011, 36, 4307-4314.	8.8	50
113	Antinociceptive, Antiinflammatory and Antibacterial Properties of Tamarix indica Roots. International Journal of Pharmacology, 2011, 7, 527-531.	0.3	20
114	Evaluation of Antinociceptive and Antidiarrhoeal Properties of Pistia stratiotes (Araceae) Leaves. Journal of Pharmacology and Toxicology, 2011, 6, 596-601.	0.2	4
115	A review on compressed-air energy use and energy savings. Renewable and Sustainable Energy Reviews, 2010, 14, 1135-1153.	16.4	349
116	An end-use energy analysis in a Malaysian public hospital. Energy, 2010, 35, 4780-4785.	8.8	86
117	Analysis of energy savings for rewinding and replacement of industrial motor. , 2010, , .		9
118	Modeling germanium diffusion in Si _{1-x} Gex/Si superlattice structures. Journal of Applied Physics, 2009, 105, .	2.5	8
119	Effects of operating variables on heat transfer and energy consumption of a household refrigerator-freezer during closed door operation. Energy, 2009, 34, 196-198.	8.8	47
120	Energy and environmental analysis of electrical motor in industrial boilers. , 2009, , .		3
121	Overall Thermal Transfer Value of Residential Buildings in Malaysia. Journal of Applied Sciences, 2009, 9, 2130-2136.	0.3	26
122	Investigation of Energy Consumption and Energy Savings of Refrigerator-Freezer During Open and Closed Door Condition. Journal of Applied Sciences, 2008, 8, 1822-1831.	0.3	25
123	Analysis of Exhaust Emissions of Natural Gas Engine by Using Response Surface Methodology. Journal of Applied Sciences, 2008, 8, 3328-3339.	0.3	17
124	Investigation of Energy Performance and Usage Behavior of Domestic Refrigerator Freezer Using Clustering and Segmentation. Journal of Applied Sciences, 2008, 8, 3957-3962.	0.3	7
125	Analysis of Energy and Exergy of an Annealing Furnace. Applied Mechanics and Materials, 0, 110-116, 2156-2162.	0.2	4
126	Effect of Cell Material on the Performance of PV System. Advanced Materials Research, 0, 1043, 12-16.	0.3	5

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127	Palm Oil EFB: Green Energy Source in Malaysia. Applied Mechanics and Materials, 0, 619, 376-380.	0.2	6