

M Hasanuzzaman

List of Publications by Year in descending order

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127
papers

6,402
citations

61984

43
h-index

69250

77
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128
all docs

128
docs citations

128
times ranked

5365
citing authors

#	ARTICLE	IF	CITATIONS
1	Global prospects, progress, policies, and environmental impact of solar photovoltaic power generation. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 284-297.	16.4	531
2	A review on compressed-air energy use and energy savings. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1135-1153.	16.4	349
3	Technologies to recover exhaust heat from internal combustion engines. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5649-5659.	16.4	313
4	Effects of various parameters on PV-module power and efficiency. <i>Energy Conversion and Management</i> , 2015, 103, 348-358.	9.2	286
5	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
6	Evaluation of the effect of nanofluid-based absorbers on direct solar collector. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5899-5907.	4.8	259
7	Global advancement of cooling technologies for PV systems: A review. <i>Solar Energy</i> , 2016, 137, 25-45.	6.1	259
8	Application of Computational Fluid Dynamics (CFD) for nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4104-4115.	4.8	229
9	Water/MWCNT nanofluid based cooling system of PVT: Experimental and numerical research. <i>Renewable Energy</i> , 2018, 121, 286-300.	8.9	193
10	Energy and exergy analysis of the PVT system: Effect of nanofluid flow rate. <i>Solar Energy</i> , 2018, 169, 217-230.	6.1	150
11	Numerical and experimental investigation on the performance of a photovoltaic thermal collector with parallel plate flow channel under different operating conditions in Malaysia. <i>Solar Energy</i> , 2017, 144, 517-528.	6.1	141
12	Recent progresses and achievements in photovoltaic-phase change material technology: A review with special treatment on photovoltaic thermal-phase change material systems. <i>Energy Conversion and Management</i> , 2016, 126, 177-204.	9.2	139
13	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
14	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
15	Energy savings and emissions reductions for rewinding and replacement of industrial motor. <i>Energy</i> , 2011, 36, 233-240.	8.8	127
16	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
17	Effects of operational conditions on the energy efficiency of photovoltaic modules operating in Malaysia. <i>Journal of Cleaner Production</i> , 2017, 143, 912-924.	9.3	102
18	Energy savings in the combustion based process heating in industrial sector. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4527-4536.	16.4	97

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19	Numerical analysis of fluid flow due to mixed convection in a lid-driven cavity having a heated circular hollow cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1093-1103.	5.6	91
20	Alternative energy resources in Bangladesh and future prospect. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 698-707.	16.4	90
21	An end-use energy analysis in a Malaysian public hospital. <i>Energy</i> , 2010, 35, 4780-4785.	8.8	86
22	Techno-economic analysis and environmental impact assessment of a 10MW biomass-based power plant in Malaysia. <i>Journal of Cleaner Production</i> , 2017, 141, 502-513.	9.3	81
23	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
24	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. <i>Energy</i> , 2011, 36, 5233-5238.	8.8	77
25	European smart grid prospects, policies, and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 776-790.	16.4	75
26	Magneto-hydrodynamic natural convection in trapezoidal cavities. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1384-1394.	5.6	73
27	Global advancement of solar drying technologies and its future prospects: A review. <i>Solar Energy</i> , 2021, 221, 559-582.	6.1	66
28	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
29	Impact of renewable energy on rural electrification in Malaysia: a review. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 859-871.	4.1	63
30	Energy consumption, energy saving and emission reduction of a garment industrial building in Bangladesh. <i>Energy</i> , 2016, 112, 91-100.	8.8	63
31	Global Renewable Energy-Based Electricity Generation and Smart Grid System for Energy Security. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	2.1	60
32	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
33	Experimental investigation of the effect of partial shading on photovoltaic performance. <i>IET Renewable Power Generation</i> , 2017, 11, 912-921.	3.1	57
34	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
35	Effect of tilt angle on the performance and electrical parameters of a PV module: Comparative indoor and outdoor experimental investigation. <i>Energy and Built Environment</i> , 2022, 3, 278-290.	5.9	55
36	Effect of high irradiation on photovoltaic power and energy. <i>International Journal of Energy Research</i> , 2018, 42, 1115-1131.	4.5	53

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37	Analysis of electrical motors load factors and energy savings in an Indian cement industry. <i>Energy</i> , 2011, 36, 4307-4314.	8.8	50
38	MHD natural convection in an enclosure from two semi-circular heaters on the bottom wall. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1844-1854.	4.8	50
39	A review of thermodynamics and heat transfer in solar refrigeration system. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5639-5648.	16.4	49
40	Effects of operating variables on heat transfer and energy consumption of a household refrigerator-freezer during closed door operation. <i>Energy</i> , 2009, 34, 196-198.	8.8	47
41	Effects of Reynolds and Prandtl number on mixed convection in a ventilated cavity with a heat-generating solid circular block. <i>Applied Mathematical Modelling</i> , 2012, 36, 2056-2066.	4.2	46
42	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
43	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
44	A Three-Dimensional Comprehensive Numerical Investigation of Different Operating Parameters on the Performance of a Photovoltaic Thermal System With Pancake Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2017, 139, .	1.8	42
45	Modelling and analysis of the effect of different parameters on a parabolic-trough concentrating solar system. <i>RSC Advances</i> , 2015, 5, 36540-36546.	3.6	41
46	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
47	Global electricity demand, generation, grid system, and renewable energy polices: a review. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2017, 6, e222.	4.1	38
48	Photovoltaic power generation and its economic and environmental future in Bangladesh. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	2.0	33
49	Effects of Lewis number on heat and mass transfer in a triangular cavity. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1213-1219.	5.6	30
50	Heat Transfer Enhancement of Nanofluids in a Lid-Driven Square Enclosure. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 973-991.	2.1	29
51	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
52	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
53	Overall Thermal Transfer Value of Residential Buildings in Malaysia. <i>Journal of Applied Sciences</i> , 2009, 9, 2130-2136.	0.3	26
54	Challenges of Electric Vehicles and Their Prospects in Malaysia: A Comprehensive Review. <i>Sustainability</i> , 2022, 14, 8320.	3.2	26

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55	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
56	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
57	Investigation of Energy Consumption and Energy Savings of Refrigerator-Freezer During Open and Closed Door Condition. <i>Journal of Applied Sciences</i> , 2008, 8, 1822-1831.	0.3	25
58	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. <i>Renewable Energy</i> , 2018, 129, 419-430.	8.9	24
59	Prospects, progress, policies, and effects of rural electrification in Bangladesh. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 553-567.	16.4	20
60	Energy storage technologies. , 2020, , 125-165.		20
61	Antinociceptive, Antiinflammatory and Antibacterial Properties of <i>Tamarix indica</i> Roots. <i>International Journal of Pharmacology</i> , 2011, 7, 527-531.	0.3	20
62	Factors affecting the pv based power generation. , 2014, , .		19
63	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
64	Global Prospects, Advance Technologies and Policies of Energy-Saving and Sustainable Building Systems: A Review. <i>Sustainability</i> , 2022, 14, 1316.	3.2	19
65	Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1987-2009.	4.1	19
66	Global Challenges and Prospects of Photovoltaic Materials Disposal and Recycling: A Comprehensive Review. <i>Sustainability</i> , 2022, 14, 8567.	3.2	18
67	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
68	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
69	Analysis of Exhaust Emissions of Natural Gas Engine by Using Response Surface Methodology. <i>Journal of Applied Sciences</i> , 2008, 8, 3328-3339.	0.3	17
70	Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances. <i>Sustainability</i> , 2022, 14, 1450.	3.2	17
71	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
72	Effect of Different Factors on the Leakage Current Behavior of Silicon Photovoltaic Modules at High Voltage Stress. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1259-1265.	2.5	15

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73	Experimental investigation on the effect of using chemical dyes on the performance of single-slope passive solar still. <i>Solar Energy</i> , 2022, 233, 71-83.	6.1	15
74	Effect of Heat-Generating Solid Body on Mixed Convection Flow in a Ventilated Cavity. <i>Heat Transfer Engineering</i> , 2013, 34, 1249-1261.	1.9	14
75	An energy flow analysis in a paper-based industry. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 905-916.	4.1	13
76	Effectiveness enhancement of heat exchanger by using nanofluids. , 2011, , .		12
77	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
78	Simulation of mixed convection heat transfer in a horizontal channel with an open cavity containing a heated hollow cylinder. <i>Heat Transfer - Asian Research</i> , 2012, 41, 339-353.	2.8	11
79	Energy, economic, and environmental analysis of the Malaysian industrial compressed-air systems. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 195-210.	4.1	11
80	Enhance photovoltaic/thermal system performance by using nanofluid. , 2014, , .		10
81	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
82	Real-Time Experimental Performance Assessment of a Photovoltaic Thermal System Cascaded With Flat Plate and Heat Pipe Evacuated Tube Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2022, 144, .	1.8	10
83	Analysis of energy savings for rewinding and replacement of industrial motor. , 2010, , .		9
84	Finite Element Simulation of Magnetohydrodynamic Mixed Convection in a Double-Lid Driven Enclosure With a Square Heat-Generating Block. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	9
85	Impact of Tilt Angle on the Performance of Photovoltaic Modules in Malaysia: a review. , 2016, , .		9
86	Energy demand. , 2020, , 41-87.		9
87	Modeling germanium diffusion in Si $_{1-x}$ Gex/Si superlattice structures. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	8
88	Techno-economic Analysis of Evacuated Tube Solar Water Heater using F-chart Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 358, 012016.	0.6	8
89	Modern energy conversion technologies. , 2020, , 19-39.		8
90	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

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91	Investigation of Energy Performance and Usage Behavior of Domestic Refrigerator Freezer Using Clustering and Segmentation. <i>Journal of Applied Sciences</i> , 2008, 8, 3957-3962.	0.3	7
92	Global prospects, challenges and progress of photovoltaic thermal system. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102426.	2.7	7
93	Palm Oil EFB: Green Energy Source in Malaysia. <i>Applied Mechanics and Materials</i> , 0, 619, 376-380.	0.2	6
94	Estimation of Greenhouse Gas Emissions of Petrol, Biodiesel and Battery Electric Vehicles in Malaysia Based on Life Cycle Approach. <i>Sustainability</i> , 2022, 14, 5783.	3.2	6
95	Analysis of energy, exergy and energy savings of a fire tube boiler. , 2011, , .		5
96	Effect of Cell Material on the Performance of PV System. <i>Advanced Materials Research</i> , 0, 1043, 12-16.	0.3	5
97	Temperature effect of photovoltaic module under partial shading operation condition. , 2014, , .		5
98	Analysis of Energy and Exergy of an Annealing Furnace. <i>Applied Mechanics and Materials</i> , 0, 110-116, 2156-2162.	0.2	4
99	Evaluation of Antinociceptive and Antidiarrhoeal Properties of <i>Pistia stratiotes</i> (Araceae) Leaves. <i>Journal of Pharmacology and Toxicology</i> , 2011, 6, 596-601.	0.2	4
100	Leakage Current Paths in PV Transformer-Less Single-Phase Inverter Topology and Its Mitigation through PWM for Switching. <i>International Journal of Power Electronics and Drive Systems</i> , 2015, 6, 148.	0.6	4
101	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
102	Energy and environmental analysis of electrical motor in industrial boilers. , 2009, , .		3
103	An Analysis of Actual Energy Savings in an Indian Cement Industry Through an Energy Efficiency Index. <i>International Journal of Green Energy</i> , 2012, 9, 829-840.	3.8	3
104	Energy economics. , 2020, , 167-178.		3
105	World energy policies. , 2020, , 179-198.		3
106	Solar thermal collector. , 2022, , 93-122.		3
107	Energy and emission analysis in the malaysian food industries. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 777-783.	2.3	2
108	Thermal performance improvement of solar thermal power generation. , 2013, , .		2

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109	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
110	Pretreatment of biomass for power generation. , 2016, , .		2
111	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
112	Effect of nanofluid properties and mass-flow rate on heat transfer of parabolic-trough concentrating solar system. Journal of Naval Architecture and Marine Engineering, 2019, 16, 33-44.	1.2	2
113	Effect on insulation of photovoltaic thermal water collector (pvtw). , 2013, , .		1
114	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
115	Numerical and experimental investigation of the effect of tilt angle on the performance of PV systems. , 2018, , .		1
116	Feasibility analysis of rooftop solar photovoltaic for non-academic building in an educational institution in Malaysia. IOP Conference Series: Earth and Environmental Science, 2021, 673, 012005.	0.3	1
117	Solar thermal energy conversion. , 2022, , 25-54.		1
118	3D numerical study in a solar collector: effect of prandtl number. , 2016, , .		0
119	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
120	Heat exchanger for solar thermal energy. , 2022, , 55-91.		0
121	Solar thermal power plant. , 2022, , 151-213.		0
122	Solar thermal energy storage. , 2022, , 215-236.		0
123	Solar water desalination system. , 2022, , 267-291.		0
124	Solar drying system. , 2022, , 237-266.		0
125	Environmental impact assessment of solar thermal energy. , 2022, , 323-360.		0
126	Fundamentals of thermal energy and solar system integration. , 2022, , 1-24.		0

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127	Economic assessment of solar thermal energy technologies. , 2022, , 293-322.		0