

Hongxing Yang

List of Publications by Year in descending order

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342
papers

20,057
citations

10373

72
h-index

15249

126
g-index

348
all docs

348
docs citations

348
times ranked

11964
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal sizing method for stand-alone hybrid solar-wind system with LPSP technology by using genetic algorithm. <i>Solar Energy</i> , 2008, 82, 354-367.	2.9	726
2	Current status of research on optimum sizing of stand-alone hybrid solar-wind power generation systems. <i>Applied Energy</i> , 2010, 87, 380-389.	5.1	718
3	A novel optimization sizing model for hybrid solar-wind power generation system. <i>Solar Energy</i> , 2007, 81, 76-84.	2.9	601
4	Optimal design and techno-economic analysis of a hybrid solar-wind power generation system. <i>Applied Energy</i> , 2009, 86, 163-169.	5.1	560
5	Review on life cycle assessment of energy payback and greenhouse gas emission of solar photovoltaic systems. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 255-274.	8.2	536
6	Vertical-borehole ground-coupled heat pumps: A review of models and systems. <i>Applied Energy</i> , 2010, 87, 16-27.	5.1	535
7	A feasibility study of a stand-alone hybrid solar-wind-battery system for a remote island. <i>Applied Energy</i> , 2014, 121, 149-158.	5.1	468
8	Technical feasibility study on a standalone hybrid solar-wind system with pumped hydro storage for a remote island in Hong Kong. <i>Renewable Energy</i> , 2014, 69, 7-15.	4.3	304
9	Using phase change materials in photovoltaic systems for thermal regulation and electrical efficiency improvement: A review and outlook. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1273-1284.	8.2	304
10	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015, 137, 649-659.	5.1	304
11	A novel model for photovoltaic array performance prediction. <i>Applied Energy</i> , 2007, 84, 1187-1198.	5.1	286
12	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island. <i>Energy Conversion and Management</i> , 2014, 79, 387-397.	4.4	270
13	A new model and analytical solutions for borehole and pile ground heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2593-2601.	2.5	266
14	Weather data and probability analysis of hybrid photovoltaic-wind power generation systems in Hong Kong. <i>Renewable Energy</i> , 2003, 28, 1813-1824.	4.3	261
15	Investigation on wind power potential on Hong Kong islands-an analysis of wind power and wind turbine characteristics. <i>Renewable Energy</i> , 2002, 27, 1-12.	4.3	246
16	Computer-aided design of PV/wind hybrid system. <i>Renewable Energy</i> , 2003, 28, 1491-1512.	4.3	233
17	Development of hybrid battery-supercapacitor energy storage for remote area renewable energy systems. <i>Applied Energy</i> , 2015, 153, 56-62.	5.1	230
18	Development of a model to simulate the performance characteristics of crystalline silicon photovoltaic modules/strings/arrays. <i>Solar Energy</i> , 2014, 100, 31-41.	2.9	211

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19	Thermal regulation of photovoltaic cladding. <i>Solar Energy</i> , 1997, 61, 169-178.	2.9	205
20	A comprehensive review on passive design approaches in green building rating tools. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 1425-1436.	8.2	201
21	Numerical investigation of the energy saving potential of a semi-transparent photovoltaic double-skin facade in a cool-summer Mediterranean climate. <i>Applied Energy</i> , 2016, 165, 345-356.	5.1	197
22	Solar photovoltaic system modeling and performance prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 36, 304-315.	8.2	196
23	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015, 160, 728-736.	5.1	190
24	Study on thermal performance of semi-transparent building-integrated photovoltaic glazings. <i>Energy and Buildings</i> , 2008, 40, 341-350.	3.1	186
25	Optimization of wind turbine layout position in a wind farm using a newly-developed two-dimensional wake model. <i>Applied Energy</i> , 2016, 174, 192-200.	5.1	186
26	Environmental payback time analysis of a roof-mounted building-integrated photovoltaic (BIPV) system in Hong Kong. <i>Applied Energy</i> , 2010, 87, 3625-3631.	5.1	168
27	Overview on hybrid solar photovoltaic-electrical energy storage technologies for power supply to buildings. <i>Energy Conversion and Management</i> , 2019, 187, 103-121.	4.4	168
28	Comparison of energy performance between PV double skin facades and PV insulating glass units. <i>Applied Energy</i> , 2017, 194, 148-160.	5.1	152
29	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. <i>Applied Energy</i> , 2018, 232, 157-186.	5.1	150
30	Wake modeling of wind turbines using machine learning. <i>Applied Energy</i> , 2020, 257, 114025.	5.1	142
31	Numerical analysis and experimental validation of heat transfer in ground heat exchangers in alternative operation modes. <i>Energy and Buildings</i> , 2008, 40, 1060-1066.	3.1	131
32	The application of air layers in building envelopes: A review. <i>Applied Energy</i> , 2016, 165, 707-734.	5.1	131
33	Wind power potential and characteristic analysis of the Pearl River Delta region, China. <i>Renewable Energy</i> , 2006, 31, 739-753.	4.3	130
34	Investigation on the annual thermal performance of a photovoltaic wall mounted on a multi-layer facade. <i>Applied Energy</i> , 2013, 112, 646-656.	5.1	129
35	An experimental study of the thermal performance of a novel photovoltaic double-skin facade in Hong Kong. <i>Solar Energy</i> , 2013, 97, 293-304.	2.9	129
36	Optimum design of shading-type building-integrated photovoltaic claddings with different surface azimuth angles. <i>Applied Energy</i> , 2012, 90, 233-240.	5.1	125

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37	An analytical model for the heat and mass transfer processes in indirect evaporative cooling with parallel/counter flow configurations. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 617-627.	2.5	122
38	Comparative study of the thermal and power performances of a semi-transparent photovoltaic façade under different ventilation modes. <i>Applied Energy</i> , 2015, 138, 572-583.	5.1	120
39	Wind turbine layout optimization using multi-population genetic algorithm and a case study in Hong Kong offshore. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 139, 89-99.	1.7	114
40	Long term operation of a solar assisted ground coupled heat pump system for space heating and domestic hot water. <i>Energy and Buildings</i> , 2011, 43, 1835-1844.	3.1	111
41	Battery behavior prediction and battery working states analysis of a hybrid solar-wind power generation system. <i>Renewable Energy</i> , 2008, 33, 1413-1423.	4.3	108
42	A Review of the Energy Performance and Life-Cycle Assessment of Building-Integrated Photovoltaic (BIPV) Systems. <i>Energies</i> , 2018, 11, 3157.	1.6	106
43	The ultra-low Reynolds number airfoil wake. <i>Experiments in Fluids</i> , 2010, 48, 81-103.	1.1	105
44	Study on offshore wind power potential and wind farm optimization in Hong Kong. <i>Applied Energy</i> , 2014, 130, 519-531.	5.1	105
45	Study on hybrid ground-coupled heat pump system for air-conditioning in hot-weather areas like Hong Kong. <i>Applied Energy</i> , 2010, 87, 2826-2833.	5.1	104
46	Performance evaluation of a stand-alone photovoltaic system on an isolated island in Hong Kong. <i>Applied Energy</i> , 2013, 112, 663-672.	5.1	104
47	Numerical evaluation of the mixed convective heat transfer in a double-pane window integrated with see-through a-Si PV cells with low-e coatings. <i>Applied Energy</i> , 2010, 87, 3431-3437.	5.1	103
48	Turbulent intensity and Reynolds number effects on an airfoil at low Reynolds numbers. <i>Physics of Fluids</i> , 2014, 26, .	1.6	101
49	Thermoelectric mini cooler coupled with micro thermosiphon for CPU cooling system. <i>Energy</i> , 2015, 83, 29-36.	4.5	101
50	Study on an innovative three-dimensional wind turbine wake model. <i>Applied Energy</i> , 2018, 226, 483-493.	5.1	101
51	Heat transfer analysis of ground heat exchangers with inclined boreholes. <i>Applied Thermal Engineering</i> , 2006, 26, 1169-1175.	3.0	98
52	Wind turbine power modelling and optimization using artificial neural network with wind field experimental data. <i>Applied Energy</i> , 2020, 280, 115880.	5.1	92
53	Experimental studies on a ground coupled heat pump with solar thermal collectors for space heating. <i>Energy</i> , 2011, 36, 5292-5300.	4.5	90
54	A review of the mathematical models for predicting the heat and mass transfer process in the liquid desiccant dehumidifier. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 587-599.	8.2	89

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55	Hybrid renewable energy applications in zero-energy buildings and communities integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 290, 116733.	5.1	88
56	Investigation on air-conditioning load profile and energy consumption of desiccant cooling system for commercial buildings in Hong Kong. <i>Energy and Buildings</i> , 2012, 49, 509-518.	3.1	87
57	A review and outlook for integrated BIM application in green building assessment. <i>Sustainable Cities and Society</i> , 2019, 48, 101576.	5.1	86
58	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020, 213, 112868.	4.4	86
59	Study on hybrid ground-coupled heat pump systems. <i>Energy and Buildings</i> , 2008, 40, 2028-2036.	3.1	85
60	Performance analysis of a proposed solar assisted ground coupled heat pump system. <i>Applied Energy</i> , 2012, 97, 888-896.	5.1	85
61	Performance of ventilated double-sided PV façade compared with conventional clear glass façade. <i>Energy and Buildings</i> , 2013, 56, 204-209.	3.1	84
62	Study on performance of solar assisted air source heat pump systems for hot water production in Hong Kong. <i>Applied Energy</i> , 2010, 87, 2818-2825.	5.1	82
63	Energy storage and management system design optimization for a photovoltaic integrated low-energy building. <i>Energy</i> , 2020, 190, 116424.	4.5	80
64	A review on developments and researches of building integrated photovoltaic (BIPV) windows and shading blinds. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111355.	8.2	80
65	Simple approach to cooling load component calculation through PV walls. <i>Energy and Buildings</i> , 2000, 31, 285-290.	3.1	79
66	A multi-stage optimization of passively designed high-rise residential buildings in multiple building operation scenarios. <i>Applied Energy</i> , 2017, 206, 541-557.	5.1	78
67	Soil thermal imbalance of ground source heat pump systems with spiral-coil energy pile groups under seepage conditions and various influential factors. <i>Energy Conversion and Management</i> , 2018, 178, 123-136.	4.4	78
68	Hierarchical CoMoO ₄ @Co ₃ O ₄ nanocomposites on an ordered macro-porous electrode plate as a multi-dimensional electrode in high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17312-17324.	5.2	76
69	The Optimum Tilt Angles and Orientations of PV Claddings for Building-Integrated Photovoltaic (BIPV) Applications. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007, 129, 253-255.	1.1	75
70	Feasibility study on novel hybrid ground coupled heat pump system with nocturnal cooling radiator for cooling load dominated buildings. <i>Applied Energy</i> , 2011, 88, 4160-4171.	5.1	75
71	Experimental and theoretical research of a fin-tube type internally-cooled liquid desiccant dehumidifier. <i>Applied Energy</i> , 2014, 133, 127-134.	5.1	75
72	Micro hydro power generation from water supply system in high rise buildings using pump as turbines. <i>Energy</i> , 2017, 137, 431-440.	4.5	75

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73	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. <i>Energy</i> , 2016, 112, 538-548.	4.5	73
74	Simulation-based approach to optimize passively designed buildings: A case study on a typical architectural form in hot and humid climates. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1712-1725.	8.2	72
75	Investigation on feasibility of ionic liquids used in solar liquid desiccant air conditioning system. <i>Solar Energy</i> , 2012, 86, 2718-2724.	2.9	71
76	A holistic passive design approach to optimize indoor environmental quality of a typical residential building in Hong Kong. <i>Energy</i> , 2016, 113, 267-281.	4.5	71
77	Indirect evaporative cooler considering condensation from primary air: Model development and parameter analysis. <i>Building and Environment</i> , 2016, 95, 330-345.	3.0	71
78	A simplified analytical model for indirect evaporative cooling considering condensation from fresh air: Development and application. <i>Energy and Buildings</i> , 2015, 108, 387-400.	3.1	70
79	Parameter sensitivity analysis and configuration optimization of indirect evaporative cooler (IEC) considering condensation. <i>Applied Energy</i> , 2017, 194, 440-453.	5.1	70
80	Developing a meta-model for sensitivity analyses and prediction of building performance for passively designed high-rise residential buildings. <i>Applied Energy</i> , 2017, 194, 422-439.	5.1	68
81	Performance analysis of a heat pipe PV/T system with different circulation tank capacities. <i>Applied Thermal Engineering</i> , 2015, 87, 89-97.	3.0	67
82	Investigation into spacing restriction and layout optimization of wind farm with multiple types of wind turbines. <i>Energy</i> , 2019, 168, 637-650.	4.5	67
83	Integrated energy performance optimization of a passively designed high-rise residential building in different climatic zones of China. <i>Applied Energy</i> , 2018, 215, 145-158.	5.1	64
84	Investigation and validation of 3D wake model for horizontal-axis wind turbines based on filed measurements. <i>Applied Energy</i> , 2020, 260, 114272.	5.1	64
85	TiO ₂ /silane coupling agent composed of two layers structure: A super-hydrophilic self-cleaning coating applied in PV panels. <i>Applied Energy</i> , 2017, 204, 932-938.	5.1	62
86	Numerical study on indirect evaporative coolers considering condensation: A thorough comparison between cross flow and counter flow. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 472-486.	2.5	62
87	A review of designs and performance of facade-based building integrated photovoltaic-thermal (BIPVT) systems. <i>Applied Thermal Engineering</i> , 2021, 182, 116081.	3.0	62
88	Validation of the Sandia model with indoor and outdoor measurements for semi-transparent amorphous silicon PV modules. <i>Renewable Energy</i> , 2015, 80, 316-323.	4.3	61
89	Peer-to-peer trading optimizations on net-zero energy communities with energy storage of hydrogen and battery vehicles. <i>Applied Energy</i> , 2021, 302, 117578.	5.1	61
90	Potential application of solar thermal systems for hot water production in Hong Kong. <i>Applied Energy</i> , 2009, 86, 175-180.	5.1	59

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91	Fluid forces on a very low Reynolds number airfoil and their prediction. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 329-339.	1.1	59
92	Study on stand-alone power supply options for an isolated community. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 65, 1-11.	3.3	58
93	Investigation on solar assisted liquid desiccant dehumidifier and evaporative cooling system for fresh air treatment. <i>Energy</i> , 2018, 143, 114-127.	4.5	58
94	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 281, 116038.	5.1	58
95	Peer-to-peer energy trading of net-zero energy communities with renewable energy systems integrating hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 298, 117206.	5.1	58
96	TEOS/silane coupling agent composed double layers structure: A novel super-hydrophilic coating with controllable water contact angle value. <i>Applied Energy</i> , 2017, 185, 2209-2216.	5.1	57
97	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. <i>Energy</i> , 2019, 172, 1-17.	4.5	57
98	A review of full-scale wind-field measurements of the wind-turbine wake effect and a measurement of the wake-interaction effect. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110042.	8.2	57
99	Investigation on heat transfer around buried coils of pile foundation heat exchangers for ground-coupled heat pump applications. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6023-6031.	2.5	56
100	Development of walkable photovoltaic floor tiles used for pavement. <i>Energy Conversion and Management</i> , 2019, 183, 764-771.	4.4	56
101	Air pollution and soiling implications for solar photovoltaic power generation: A comprehensive review. <i>Applied Energy</i> , 2021, 298, 117247.	5.1	56
102	Liquid desiccant dehumidifier: Development of a new performance prediction model based on CFD. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 408-416.	2.5	55
103	Energy and economic performance analysis of an open cycle solar desiccant dehumidification air-conditioning system for application in Hong Kong. <i>Solar Energy</i> , 2010, 84, 2085-2095.	2.9	54
104	In situ operation performance test of ground coupled heat pump system for cooling and heating provision in temperate zone. <i>Applied Energy</i> , 2012, 97, 913-920.	5.1	54
105	A novel magnetic levitated bearing system for Vertical Axis Wind Turbines (VAWT). <i>Applied Energy</i> , 2012, 90, 148-153.	5.1	54
106	The analysis on solid cylindrical heat source model of foundation pile ground heat exchangers with groundwater flow. <i>Energy</i> , 2013, 55, 417-425.	4.5	54
107	Developing a method and simulation model for evaluating the overall energy performance of a ventilated semi-transparent photovoltaic double-skin facade. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 781-799.	4.4	54
108	Investigation of wind turbine performance coupling wake and topography effects based on LiDAR measurements and SCADA data. <i>Applied Energy</i> , 2019, 255, 113816.	5.1	54

#	ARTICLE	IF	CITATIONS
109	A new environmental friendly silver front contact paste for crystalline silicon solar cells. <i>Journal of Alloys and Compounds</i> , 2013, 549, 221-225.	2.8	53
110	Development of simplified prediction model for internally cooled/heated liquid desiccant dehumidification system. <i>Energy and Buildings</i> , 2013, 59, 133-142.	3.1	53
111	Research development of indirect evaporative cooling technology: An updated review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111082.	8.2	53
112	Comparative study of the dynamic programming-based and rule-based operation strategies for grid-connected PV-battery systems of office buildings. <i>Applied Energy</i> , 2022, 305, 117875.	5.1	53
113	Flow and heat transfer characteristics of natural convection in vertical air channels of double-skin solar façades. <i>Applied Energy</i> , 2019, 242, 107-120.	5.1	52
114	Numerical investigation of the average wind speed of a single wind turbine and development of a novel three-dimensional multiple wind turbine wake model. <i>Renewable Energy</i> , 2020, 147, 192-203.	4.3	52
115	Low resistance dye-sensitized solar cells based on all-titanium substrates using wires and sheets. <i>Applied Surface Science</i> , 2009, 255, 9020-9025.	3.1	51
116	An energy system model for Hong Kong in 2020. <i>Energy</i> , 2014, 68, 301-310.	4.5	51
117	Investigation on wetted area and film thickness for falling film liquid desiccant regeneration system. <i>Applied Energy</i> , 2013, 112, 93-101.	5.1	50
118	Performance improvement of a vertical axis wind turbine by comprehensive assessment of an airfoil family. <i>Energy</i> , 2016, 114, 318-331.	4.5	50
119	Parametric study of passive design strategies for high-rise residential buildings in hot and humid climates: miscellaneous impact factors. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 442-460.	8.2	50
120	An integrated life cycle assessment of different façade systems for a typical residential building in Ghana. <i>Sustainable Cities and Society</i> , 2020, 53, 101974.	5.1	50
121	Dynamic and microscopic simulation of the counter-current flow in a liquid desiccant dehumidifier. <i>Applied Energy</i> , 2014, 136, 1018-1025.	5.1	49
122	Grid-connected building-integrated photovoltaics: a Hong Kong case study. <i>Solar Energy</i> , 2004, 76, 55-59.	2.9	48
123	A statistical modeling approach on the performance prediction of indirect evaporative cooling energy recovery systems. <i>Applied Energy</i> , 2019, 255, 113832.	5.1	48
124	Hybrid photovoltaic/thermal and ground source heat pump: Review and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111569.	8.2	48
125	Feasibility of ground source heat pump using spiral coil energy piles with seepage for hotels in cold regions. <i>Energy Conversion and Management</i> , 2020, 205, 112466.	4.4	48
126	Long term performance analysis of a standalone photovoltaic system under real conditions. <i>Applied Energy</i> , 2017, 201, 320-331.	5.1	46

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127	Numerical investigation of a novel vacuum photovoltaic curtain wall and integrated optimization of photovoltaic envelope systems. <i>Applied Energy</i> , 2018, 229, 1048-1060.	5.1	46
128	Daylighting and overall energy performance of a novel semi-transparent photovoltaic vacuum glazing in different climate zones. <i>Applied Energy</i> , 2020, 276, 115414.	5.1	46
129	Net-zero energy management and optimization of commercial building sectors with hybrid renewable energy systems integrated with energy storage of pumped hydro and hydrogen taxis. <i>Applied Energy</i> , 2022, 321, 119312.	5.1	46
130	Impacts of the shading-type building-integrated photovoltaic claddings on electricity generation and cooling load component through shaded windows. <i>Energy and Buildings</i> , 2010, 42, 455-460.	3.1	45
131	The research on ring-coil heat transfer models of pile foundation ground heat exchangers in the case of groundwater seepage. <i>Energy and Buildings</i> , 2014, 71, 115-128.	3.1	45
132	The effect of the opening ratio and location on the performance of a novel vertical axis Darrieus turbine. <i>Energy</i> , 2015, 89, 819-834.	4.5	45
133	Study on an internally-cooled liquid desiccant dehumidifier with CFD model. <i>Applied Energy</i> , 2017, 194, 399-409.	5.1	45
134	Influence of Phase-Shift and Overlap Ratio on Savonius Wind Turbine's Performance. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012, 134, .	1.1	44
135	Study on spiral source models revealing groundwater transfusion effects on pile foundation ground heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 119-129.	2.5	44
136	Experimental research on a novel porous ceramic tube type indirect evaporative cooler. <i>Applied Thermal Engineering</i> , 2017, 125, 1191-1199.	3.0	44
137	Thermal behavior of a novel type see-through glazing system with integrated PV cells. <i>Building and Environment</i> , 2009, 44, 2129-2136.	3.0	43
138	Experimental study of internally cooled liquid desiccant dehumidification: Application in Hong Kong and intensive analysis of influencing factors. <i>Building and Environment</i> , 2015, 93, 210-220.	3.0	43
139	Simulation of hybrid ground-coupled heat pump with domestic hot water heating systems using HVACSIM+. <i>Energy and Buildings</i> , 2008, 40, 1731-1736.	3.1	42
140	Trigeneration: A new way for landfill gas utilization and its feasibility in Hong Kong. <i>Energy Policy</i> , 2008, 36, 3662-3673.	4.2	41
141	Investigation on the thermal performance of different lightweight roofing structures and its effect on space cooling load. <i>Applied Thermal Engineering</i> , 2009, 29, 2491-2499.	3.0	41
142	Investigation on influential factors of engineering design of geothermal heat exchangers. <i>Applied Thermal Engineering</i> , 2015, 84, 310-319.	3.0	40
143	Study on heat transfer of pile foundation ground heat exchanger with three-dimensional groundwater seepage. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 58-66.	2.5	40
144	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. <i>Journal of Cleaner Production</i> , 2019, 220, 313-330.	4.6	40

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145	Investigation into the relationship of the overlap ratio and shift angle of double stage three bladed vertical axis wind turbine (VAWT). <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 107-108, 57-75.	1.7	39
146	Investigation into the optimal wind turbine layout patterns for a Hong Kong offshore wind farm. <i>Energy</i> , 2014, 73, 430-442.	4.5	39
147	Comprehensive experimental testing and analysis on parabolic trough solar receiver integrated with radiation shield. <i>Applied Energy</i> , 2020, 268, 115004.	5.1	39
148	A novel three-dimensional wake model based on anisotropic Gaussian distribution for wind turbine wakes. <i>Applied Energy</i> , 2021, 296, 117059.	5.1	39
149	Investigation on solar desiccant dehumidification process for energy conservation of central air-conditioning systems. <i>Applied Thermal Engineering</i> , 2008, 28, 1118-1126.	3.0	38
150	A generalized window energy rating system for typical office buildings. <i>Solar Energy</i> , 2010, 84, 1232-1243.	2.9	38
151	A comprehensive sensitivity study of major passive design parameters for the public rental housing development in Hong Kong. <i>Energy</i> , 2015, 93, 1804-1818.	4.5	38
152	Thermal performance improvement using unilateral spiral ribbed absorber tube for parabolic trough solar collector. <i>Solar Energy</i> , 2019, 183, 371-385.	2.9	38
153	Comparison of different simplistic prediction models for forecasting PV power output: Assessment with experimental measurements. <i>Energy</i> , 2021, 224, 120162.	4.5	38
154	Combined thermal and daylight analysis of a typical public rental housing development to fulfil green building guidance in Hong Kong. <i>Energy and Buildings</i> , 2015, 108, 420-432.	3.1	37
155	Developing an automated BIM-based life cycle assessment approach for modularly designed high-rise buildings. <i>Environmental Impact Assessment Review</i> , 2021, 90, 106618.	4.4	37
156	Numerical investigation of transient laminar natural convection of air in a tall cavity. <i>Heat and Mass Transfer</i> , 2003, 39, 579-587.	1.2	35
157	Thermodynamic and economic investigation of a humidification dehumidification desalination system driven by low grade waste heat. <i>Energy Conversion and Management</i> , 2019, 183, 848-858.	4.4	35
158	Investigation on the energy performance of a novel semi-transparent BIPV system integrated with vacuum glazing. <i>Building Simulation</i> , 2019, 12, 29-39.	3.0	35
159	A Study on Simulations of the Power Output and Practical Models for Building Integrated Photovoltaic Systems. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004, 126, 929-935.	1.1	34
160	An investigation of DNA-like structured dye-sensitized solar cells. <i>Current Applied Physics</i> , 2010, 10, 119-123.	1.1	34
161	TiO ₂ /antimony-doped tin oxide: Highly water-dispersed nano composites with excellent IR insulation and super-hydrophilic property. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 499-508.	3.0	34
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