

Hongxing Yang

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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.

337
papers

14,336
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60
h-index

108
g-index

348
ext. papers

17,130
ext. citations

6.8
avg, IF

7.37
L-index

#	Paper	IF	Citations
337	Current status of research on optimum sizing of stand-alone hybrid solar/wind power generation systems. <i>Applied Energy</i> , 2010 , 87, 380-389	10.7	600
336	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	6.8	562
335	A novel optimization sizing model for hybrid solar-wind power generation system. <i>Solar Energy</i> , 2007 , 81, 76-84	6.8	472
334	Vertical-borehole ground-coupled heat pumps: A review of models and systems. <i>Applied Energy</i> , 2010 , 87, 16-27	10.7	461
333	Optimal design and techno-economic analysis of a hybrid solar/wind power generation system. <i>Applied Energy</i> , 2009 , 86, 163-169	10.7	430
332	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	16.2	413
331	A feasibility study of a stand-alone hybrid solar/wind/battery system for a remote island. <i>Applied Energy</i> , 2014 , 121, 149-158	10.7	366
330	A novel model for photovoltaic array performance prediction. <i>Applied Energy</i> , 2007 , 84, 1187-1198	10.7	231
329	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	8.1	224
328	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015 , 137, 649-659	10.7	223
327	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	4.9	222
326	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	16.2	221
325	Weather data and probability analysis of hybrid photovoltaic/wind power generation systems in Hong Kong. <i>Renewable Energy</i> , 2003 , 28, 1813-1824	8.1	215
324	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	8.1	205
323	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	10.6	192
322	Computer-aided design of PV/wind hybrid system. <i>Renewable Energy</i> , 2003 , 28, 1491-1512	8.1	190
321	Development of a model to simulate the performance characteristics of crystalline silicon photovoltaic modules/strings/arrays. <i>Solar Energy</i> , 2014 , 100, 31-41	6.8	168

320	Thermal regulation of photovoltaic cladding. <i>Solar Energy</i> , 1997 , 61, 169-178	6.8	167
319	Study on thermal performance of semi-transparent building-integrated photovoltaic glazings. <i>Energy and Buildings</i> , 2008 , 40, 341-350	7	158
318	Development of hybrid battery-supercapacitor energy storage for remote area renewable energy systems. <i>Applied Energy</i> , 2015 , 153, 56-62	10.7	157
317	A comprehensive review on passive design approaches in green building rating tools. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 1425-1436	16.2	151
316	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	10.7	141
315	Environmental payback time analysis of a roof-mounted building-integrated photovoltaic (BIPV) system in Hong Kong. <i>Applied Energy</i> , 2010 , 87, 3625-3631	10.7	135
314	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015 , 160, 728-736	10.7	134
313	Solar photovoltaic system modeling and performance prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 36, 304-315	16.2	134
312	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	10.7	114
311	Comparison of energy performance between PV double skin facades and PV insulating glass units. <i>Applied Energy</i> , 2017 , 194, 148-160	10.7	110
310	Wind power potential and characteristic analysis of the Pearl River Delta region, China. <i>Renewable Energy</i> , 2006 , 31, 739-753	8.1	110
309	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	7	109
308	Investigation on the annual thermal performance of a photovoltaic wall mounted on a multi-layer facade. <i>Applied Energy</i> , 2013 , 112, 646-656	10.7	105
307	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	4.9	105
306	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	6.8	99
305	The application of air layers in building envelopes: A review. <i>Applied Energy</i> , 2016 , 165, 707-734	10.7	96
304	Comparative study of the thermal and power performances of a semi-transparent photovoltaic facade under different ventilation modes. <i>Applied Energy</i> , 2015 , 138, 572-583	10.7	94
303	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	10.7	91

302	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. <i>Applied Energy</i> , 2018 , 232, 157-186	10.7	91
301	Optimum design of shading-type building-integrated photovoltaic claddings with different surface azimuth angles. <i>Applied Energy</i> , 2012 , 90, 233-240	10.7	89
300	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	7	88
299	Heat transfer analysis of ground heat exchangers with inclined boreholes. <i>Applied Thermal Engineering</i> , 2006 , 26, 1169-1175	5.8	86
298	Performance evaluation of a stand-alone photovoltaic system on an isolated island in Hong Kong. <i>Applied Energy</i> , 2013 , 112, 663-672	10.7	84
297	Battery behavior prediction and battery working states analysis of a hybrid solar/wind power generation system. <i>Renewable Energy</i> , 2008 , 33, 1413-1423	8.1	84
296	Overview on hybrid solar photovoltaic-electrical energy storage technologies for power supply to buildings. <i>Energy Conversion and Management</i> , 2019 , 187, 103-121	10.6	82
295	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	10.7	82
294	Study on offshore wind power potential and wind farm optimization in Hong Kong. <i>Applied Energy</i> , 2014 , 130, 519-531	10.7	81
293	The ultra-low Reynolds number airfoil wake. <i>Experiments in Fluids</i> , 2010 , 48, 81-103	2.5	81
292	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	3.7	78
291	Experimental studies on a ground coupled heat pump with solar thermal collectors for space heating. <i>Energy</i> , 2011 , 36, 5292-5300	7.9	78
290	Study on hybrid ground-coupled heat pump systems. <i>Energy and Buildings</i> , 2008 , 40, 2028-2036	7	77
289	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	16.2	73
288	Thermoelectric mini cooler coupled with micro thermosiphon for CPU cooling system. <i>Energy</i> , 2015 , 83, 29-36	7.9	70
287	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	7	70
286	Performance analysis of a proposed solar assisted ground coupled heat pump system. <i>Applied Energy</i> , 2012 , 97, 888-896	10.7	69
285	Turbulent intensity and Reynolds number effects on an airfoil at low Reynolds numbers. <i>Physics of Fluids</i> , 2014 , 26, 115107	4.4	66

284	Simple approach to cooling load component calculation through PV walls. <i>Energy and Buildings</i> , 2000 , 31, 285-290	7	66
283	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	13	65
282	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	2.3	65
281	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	10.7	64
280	Wake modeling of wind turbines using machine learning. <i>Applied Energy</i> , 2020 , 257, 114025	10.7	64
279	Performance of ventilated double-sided PV façade compared with conventional clear glass façade. <i>Energy and Buildings</i> , 2013 , 56, 204-209	7	62
278	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	10.7	62
277	Indirect evaporative cooler considering condensation from primary air: Model development and parameter analysis. <i>Building and Environment</i> , 2016 , 95, 330-345	6.5	59
276	A Review of the Energy Performance and Life-Cycle Assessment of Building-Integrated Photovoltaic (BIPV) Systems. <i>Energies</i> , 2018 , 11, 3157	3.1	59
275	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	7	56
274	Experimental and theoretical research of a fin-tube type internally-cooled liquid desiccant dehumidifier. <i>Applied Energy</i> , 2014 , 133, 127-134	10.7	56
273	Micro hydro power generation from water supply system in high rise buildings using pump as turbines. <i>Energy</i> , 2017 , 137, 431-440	7.9	55
272	A multi-stage optimization of passively designed high-rise residential buildings in multiple building operation scenarios. <i>Applied Energy</i> , 2017 , 206, 541-557	10.7	55
271	Investigation on feasibility of ionic liquids used in solar liquid desiccant air conditioning system. <i>Solar Energy</i> , 2012 , 86, 2718-2724	6.8	53
270	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. <i>Energy</i> , 2016 , 112, 538-548	7.9	52
269	Parameter sensitivity analysis and configuration optimization of indirect evaporative cooler (IEC) considering condensation. <i>Applied Energy</i> , 2017 , 194, 440-453	10.7	51
268	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	4.0	51
267	Study on an innovative three-dimensional wind turbine wake model. <i>Applied Energy</i> , 2018 , 226, 483-493	10.7	51

266	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	10.7	49
265	Potential application of solar thermal systems for hot water production in Hong Kong. <i>Applied Energy</i> , 2009 , 86, 175-180	10.7	49
264	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	16.2	48
263	A review and outlook for integrated BIM application in green building assessment. <i>Sustainable Cities and Society</i> , 2019 , 48, 101576	10.1	47
262	Development of simplified prediction model for internally cooled/heated liquid desiccant dehumidification system. <i>Energy and Buildings</i> , 2013 , 59, 133-142	7	47
261	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	8.1	46
260	The analysis on solid cylindrical heat source model of foundation pile ground heat exchangers with groundwater flow. <i>Energy</i> , 2013 , 55, 417-425	7.9	46
259	Low resistance dye-sensitized solar cells based on all-titanium substrates using wires and sheets. <i>Applied Surface Science</i> , 2009 , 255, 9020-9025	6.7	46
258	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	2.4	46
257	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	7.9	46
256	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	5.1	45
255	Investigation on solar assisted liquid desiccant dehumidifier and evaporative cooling system for fresh air treatment. <i>Energy</i> , 2018 , 143, 114-127	7.9	45
254	Investigation on wetted area and film thickness for falling film liquid desiccant regeneration system. <i>Applied Energy</i> , 2013 , 112, 93-101	10.7	45
253	A new environmental friendly silver front contact paste for crystalline silicon solar cells. <i>Journal of Alloys and Compounds</i> , 2013 , 549, 221-225	5.7	44
252	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	10.7	44
251	A novel magnetic levitated bearing system for Vertical Axis Wind Turbines (VAWT). <i>Applied Energy</i> , 2012 , 90, 148-153	10.7	44
250	Performance analysis of a heat pipe PV/T system with different circulation tank capacities. <i>Applied Thermal Engineering</i> , 2015 , 87, 89-97	5.8	43
249	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020 , 213, 112868	10.6	43

248	Energy storage and management system design optimization for a photovoltaic integrated low-energy building. <i>Energy</i> , 2020 , 190, 116424	7.9	43
247	Liquid desiccant dehumidifier: Development of a new performance predication model based on CFD. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 69, 408-416	4.9	42
246	Dynamic and microscopic simulation of the counter-current flow in a liquid desiccant dehumidifier. <i>Applied Energy</i> , 2014 , 136, 1018-1025	10.7	42
245	An energy system model for Hong Kong in 2020. <i>Energy</i> , 2014 , 68, 301-310	7.9	42
244	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	6.8	42
243	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	10.6	42
242	Grid-connected building-integrated photovoltaics: a Hong Kong case study. <i>Solar Energy</i> , 2004 , 76, 55-59	6.8	41
241	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	16.2	40
240	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	4.9	40
239	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	10.7	39
238	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	6.8	39
237	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	10.7	38
236	Simulation of hybrid ground-coupled heat pump with domestic hot water heating systems using HVACSIM+. <i>Energy and Buildings</i> , 2008 , 40, 1731-1736	7	38
235	Investigation into spacing restriction and layout optimization of wind farm with multiple types of wind turbines. <i>Energy</i> , 2019 , 168, 637-650	7.9	38
234	Study on an internally-cooled liquid desiccant dehumidifier with CFD model. <i>Applied Energy</i> , 2017 , 194, 399-409	10.7	37
233	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. <i>Energy</i> , 2019 , 172, 1-17	7.9	37
232	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	6.5	37
231	Thermal behavior of a novel type see-through glazing system with integrated PV cells. <i>Building and Environment</i> , 2009 , 44, 2129-2136	6.5	36

230	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	7	36
229	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	4.9	36
228	Performance improvement of a vertical axis wind turbine by comprehensive assessment of an airfoil family. <i>Energy</i> , 2016 , 114, 318-331	7.9	35
227	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	7	35
226	Trigeneration: A new way for landfill gas utilization and its feasibility in Hong Kong. <i>Energy Policy</i> , 2008 , 36, 3662-3673	7.2	35
225	Long term performance analysis of a standalone photovoltaic system under real conditions. <i>Applied Energy</i> , 2017 , 201, 320-331	10.7	34
224	A generalized window energy rating system for typical office buildings. <i>Solar Energy</i> , 2010 , 84, 1232-1248	4.8	34
223	Numerical investigation of transient laminar natural convection of air in a tall cavity. <i>Heat and Mass Transfer</i> , 2003 , 39, 579-587	2.2	34
222	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	10.7	33
221	Development of walkable photovoltaic floor tiles used for pavement. <i>Energy Conversion and Management</i> , 2019 , 183, 764-771	10.6	33
220	Influence of Phase-Shift and Overlap Ratio on Savonius Wind Turbine Performance. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012 , 134,	2.3	33
219	An investigation of DNA-like structured dye-sensitized solar cells. <i>Current Applied Physics</i> , 2010 , 10, 119-123	1.3	33
218	A statistical modeling approach on the performance prediction of indirect evaporative cooling energy recovery systems. <i>Applied Energy</i> , 2019 , 255, 113832	10.7	32
217	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	10.7	32
216	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	7.9	32
215	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	5.8	31
214	Investigation on solar desiccant dehumidification process for energy conservation of central air-conditioning systems. <i>Applied Thermal Engineering</i> , 2008 , 28, 1118-1126	5.8	31
213	Wind turbine power modelling and optimization using artificial neural network with wind field experimental data. <i>Applied Energy</i> , 2020 , 280, 115880	10.7	31

212	Hybrid renewable energy applications in zero-energy buildings and communities integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021 , 290, 116733	10.7	31
211	Investigation on influential factors of engineering design of geothermal heat exchangers. <i>Applied Thermal Engineering</i> , 2015 , 84, 310-319	5.8	30
210	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	7.9	29
209	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	7	29
208	Investigation into the optimal wind turbine layout patterns for a Hong Kong offshore wind farm. <i>Energy</i> , 2014 , 73, 430-442	7.9	29
207	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	4.9	29
206	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	8.1	29
205	Experimental research on a novel porous ceramic tube type indirect evaporative cooler. <i>Applied Thermal Engineering</i> , 2017 , 125, 1191-1199	5.8	28
204	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	3.7	28
203	DNA-like dye-sensitized solar cells based on TiO ₂ nanowire-covered nanotube bilayer film electrodes. <i>Materials Letters</i> , 2010 , 64, 164-166	3.3	28
202	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	2.3	28
201	Investigation of wind turbine performance coupling wake and topography effects based on LiDAR measurements and SCADA data. <i>Applied Energy</i> , 2019 , 255, 113816	10.7	27
200	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	6.4	27
199	Theoretical and experimental investigations of thermoelectric heating system with multiple ventilation channels. <i>Applied Energy</i> , 2015 , 159, 458-468	10.7	26
198	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	16.2	26
197	Numerical investigation of a novel vacuum photovoltaic curtain wall and integrated optimization of photovoltaic envelope systems. <i>Applied Energy</i> , 2018 , 229, 1048-1060	10.7	25
196	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	10.6	25
195	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. <i>Journal of Cleaner Production</i> , 2019 , 220, 313-330	10.3	25

194	A review of designs and performance of façade-based building integrated photovoltaic-thermal (BIPVT) systems. <i>Applied Thermal Engineering</i> , 2021 , 182, 116081	5.8	25
193	Thermal performance improvement using unilateral spiral ribbed absorber tube for parabolic trough solar collector. <i>Solar Energy</i> , 2019 , 183, 371-385	6.8	24
192	Influence of plate surface temperature on the wetted area and system performance for falling film liquid desiccant regeneration system. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1003-1013	4.9	24
191	First order multivariate Markov chain model for generating annual weather data for Hong Kong. <i>Energy and Buildings</i> , 2011 , 43, 2371-2377	7	24
190	Comprehensive experimental testing and analysis on parabolic trough solar receiver integrated with radiation shield. <i>Applied Energy</i> , 2020 , 268, 115004	10.7	23
189	Study on energy and economic benefits of converting a combined heating and power system to a tri-generation system for sewage treatment plants in subtropical area. <i>Applied Thermal Engineering</i> , 2016 , 94, 24-39	5.8	23
188	An investigation on the novel structure of dye-sensitized solar cell with integrated photoanode. <i>Renewable Energy</i> , 2009 , 34, 1635-1638	8.1	23
187	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021 , 281, 116038	10.7	22
186	Experimental study of plate type air cooler performances under four operating modes. <i>Building and Environment</i> , 2016 , 104, 296-310	6.5	21
185	Investigation and validation of 3D wake model for horizontal-axis wind turbines based on filed measurements. <i>Applied Energy</i> , 2020 , 260, 114272	10.7	21
184	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	10.1	21
183	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	10.6	21
182	Introducing natural lighting into the enclosed lift lobbies of highrise buildings by remote source lighting system. <i>Applied Energy</i> , 2012 , 90, 225-232	10.7	20
181	Low-temperature pyrolysis of municipal solid waste: influence of pyrolysis temperature on the characteristics of solid fuel. <i>International Journal of Energy Research</i> , 2006 , 30, 349-357	4.5	20
180	Daylighting and overall energy performance of a novel semi-transparent photovoltaic vacuum glazing in different climate zones. <i>Applied Energy</i> , 2020 , 276, 115414	10.7	20
179	Investigation on the energy performance of a novel semi-transparent BIPV system integrated with vacuum glazing. <i>Building Simulation</i> , 2019 , 12, 29-39	3.9	20
178	Core-shell CoMoO ₄ @Ni(OH) ₂ on ordered macro-porous electrode plate for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2018 , 283, 538-547	6.7	20
177	Experimental study of the film thickness in the dehumidifier of a liquid desiccant air conditioning system. <i>Energy</i> , 2015 , 84, 239-246	7.9	18

176	Thermodynamic investigation and optimization of a heat pump coupled open-air, open-water humidification dehumidification desalination system with a direct contact dehumidifier. <i>Desalination</i> , 2019 , 469, 114101	10.3	18
175	Study on the operating performance of cross hot-gas bypass defrosting system for air-to-water screw heat pumps. <i>Applied Thermal Engineering</i> , 2013 , 59, 398-404	5.8	18
174	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	16.2	18
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