Hongxing Yang

List of Publications by Year in Descending Order

337 papers	14,336 citations	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	A holistic environmental and economic design optimization of low carbon buildings considering climate change and confounding factors.. *Science of the Total Environment*, **2022**, 821, 153442	10.2	1
336	Dynamic performance evaluation of porous indirect evaporative cooling system with intermittent spraying strategies. *Applied Energy*, **2022**, 311, 118598	10.7	0
335	Enhancing the spectral tunability of localized surface plasmon resonance and small polaron transfer in Li-doped CsxWO3 nanocrystals for energy-efficient windows. *Solar Energy*, **2022**, 231, 228-235	6.8	0
334	Development of a three-dimensional numerical model of indirect evaporative cooler incorporating with air dehumidification. *International Journal of Heat and Mass Transfer*, **2022**, 185, 122316	4.9	2
333	Performance evaluation of a novel plate-type porous indirect evaporative cooling system: An experimental study. *Journal of Building Engineering*, **2022**, 48, 103898	5.2	2
332	Comparative study of the dynamic programming-based and rule-based operation strategies for grid-connected PV-battery systems of office buildings. *Applied Energy*, **2022**, 305, 117875	10.7	9
331	Damage identification of wind turbine blades using an adaptive method for compressive beamforming based on the generalized minimax-concave penalty function. *Renewable Energy*, **2022**, 181, 59-70	8.1	4
330	Condition monitoring of wind turbine blades based on self-supervised health representation learning: A conducive technique to effective and reliable utilization of wind energy. *Applied Energy*, **2022**, 313, 118882	10.7	2
329	Dynamic coupling of a heat transfer model and whole building simulation for a novel cadmium telluride-based vacuum photovoltaic glazing. *Energy*, **2022**, 250, 123745	7.9	1
328	Study on water spraying distribution to improve the energy recovery performance of indirect evaporative coolers with nozzle arrangement optimization. *Applied Energy*, **2022**, 318, 119212	10.7	0
327	Capacity configuration of distributed photovoltaic and battery system for office buildings considering uncertainties. *Applied Energy*, **2022**, 319, 119243	10.7	1
326	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. *Applied Energy*, **2022**, 321, 119312	10.7	1
325	Two-Stage Lifecycle Energy Optimization of Mid-Rise Residential Buildings with Building-Integrated Photovoltaic and Alternative Composite Fa□de Materials. *Buildings*, **2021**, 11, 642	3.2	2
324	Oxygen defect-induced small polaron transfer for controlling the near-infrared absorption coefficient of hexagonal cesium tungsten bronze nanocrystals. *Ceramics International*, **2021**, 48, 6942-6942	5.1	0
323	Enhanced spectral modulation of CsxWO3 nanocrystals through anionic doping for energy-efficient glazing. *Solar Energy Materials and Solar Cells*, **2021**, 236, 111519	6.4	0
322	Comparative experimental investigation into wake characteristics of turbines in three wind farms areas with varying terrain complexity from LiDAR measurements. *Applied Energy*, **2021**, 118182	10.7	1
321	Novel one-pot solvothermal synthesis and phase-transition mechanism of hexagonal Cs WO3 nanocrystals with superior near-infrared shielding property for energy-efficient windows. *Solar Energy*, **2021**, 230, 401-408	6.8	5

320	Applicability of indirect evaporative cooler for energy recovery in hot and humid areas: Comparison with heat recovery wheel. *Applied Energy*, **2021**, 287, 116607	10.7	6
319	Modifications to the conventional design methods for borehole heat exchangers based on a novel response factor model. *Energy and Buildings*, **2021**, 238, 110848	7	0
318	Hybrid renewable energy applications in zero-energy buildings and communities integrating battery and hydrogen vehicle storage. *Applied Energy*, **2021**, 290, 116733	10.7	31
317	Comparison of different simplistic prediction models for forecasting PV power output: Assessment with experimental measurements. *Energy*, **2021**, 224, 120162	7.9	10
316	pH-dependent doping level and optical performance of antimony-doped tin oxide nanocrystals as nanofillers of spectrally selective coating for energy-efficient windows. *Ceramics International*, **2021**, 47, 20335-20340	5.1	5
315	Spraying fabrication of spectrally selective coating with improved near-infrared shielding performance for energy-efficient glazing. *Ceramics International*, **2021**, 47, 18991-18997	5.1	7
314	Quantifying techno-economic indicators' impact on isolated renewable energy systems. *IScience*, **2021**, 24, 102730	6.1	1
313	Research development of indirect evaporative cooling technology: An updated review. *Renewable and Sustainable Energy Reviews*, **2021**, 145, 111082	16.2	14
312	Optimization strategies and verifications of negative thermal-flux region occurring in parabolic trough solar receiver. *Journal of Cleaner Production*, **2021**, 278, 123407	10.3	9
311	A review of designs and performance of fa□de-based building integrated photovoltaic-thermal (BIPVT) systems. *Applied Thermal Engineering*, **2021**, 182, 116081	5.8	25
310	Modelling analyses of the thermal property and heat transfer performance of a novel compositive PV vacuum glazing. *Renewable Energy*, **2021**, 163, 1238-1252	8.1	11
309	Transparent and Colored Solar Photovoltaics for Building Integration. *Solar Rrl*, **2021**, 5, 2000614	7.1	9
308	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. *Applied Energy*, **2021**, 281, 116038	10.7	22
307	A novel three-dimensional wake model based on anisotropic Gaussian distribution for wind turbine wakes. *Applied Energy*, **2021**, 296, 117059	10.7	3
306	Air pollution and soiling implications for solar photovoltaic power generation: A comprehensive review. *Applied Energy*, **2021**, 298, 117247	10.7	11
305	Peer-to-peer energy trading of net-zero energy communities with renewable energy systems integrating hydrogen vehicle storage. *Applied Energy*, **2021**, 298, 117206	10.7	16
304	Developing an automated BIM-based life cycle assessment approach for modularly designed high-rise buildings. *Environmental Impact Assessment Review*, **2021**, 90, 106618	5.3	9
303	A review on developments and researches of building integrated photovoltaic (BIPV) windows and shading blinds. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111355	16.2	18

302	Peer-to-peer trading optimizations on net-zero energy communities with energy storage of hydrogen and battery vehicles. *Applied Energy*, **2021**, 302, 117578	10.7	9
301	Hybrid photovoltaic/thermal and ground source heat pump: Review and perspective. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111569	16.2	6
300	Enhancing the cooling and dehumidification performance of indirect evaporative cooler by hydrophobic-coated primary air channels. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121733	4.9	3
299	Experimental investigation and annual overall performance comparison of different photovoltaic vacuum glazings. *Sustainable Cities and Society*, **2021**, 75, 103282	10.1	3
298	Heat and mass transfer characteristics and dehumidification performance improvement of an evaporatively-cooled liquid dehumidifier. *Applied Thermal Engineering*, **2020**, 178, 115579	5.8	7
297	Characteristics of primary air condensation in indirect evaporative cooler: Theoretical analysis and visualized validation. *Building and Environment*, **2020**, 174, 106783	6.5	13
296	Experimental study on wind speeds in a complex-terrain wind farm and analysis of wake effects. *Applied Energy*, **2020**, 272, 115215	10.7	10
295	Assessment of Performance Enhancement Potential of a High-Temperature Parabolic Trough Collector System Combining the Optimized IR-Reflectors. *Applied Sciences (Switzerland)*, **2020**, 10, 3744	2.6	3
294	Comprehensive experimental testing and analysis on parabolic trough solar receiver integrated with radiation shield. *Applied Energy*, **2020**, 268, 115004	10.7	23
293	Study on the effects of runner geometries on the performance of inline cross-flow turbine used in water pipelines. *Sustainable Energy Technologies and Assessments*, **2020**, 40, 100762	4.7	4
292	Coupling an artificial neuron network daylighting model and building energy simulation for vacuum photovoltaic glazing. *Applied Energy*, **2020**, 263, 114624	10.7	15
291	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. *Energy Conversion and Management*, **2020**, 213, 112868	10.6	43
290	Synthesis and characterization of Sb-doped SnO2 with high near-infrared shielding property for energy-efficient windows by a facile dual-titration co-precipitation method. *Ceramics International*, **2020**, 46, 18518-18525	5.1	12
289	Energy Performance of a Building-Integrated Photovoltaic/Thermal System for Rural Residential Buildings in Cold Regions of China. *Environmental Science and Engineering*, **2020**, 847-856	0.2	
288	A Multi-criterion Optimization for Passive Building Integrated with Vacuum Photovoltaic Insulated Glass Unit. *Environmental Science and Engineering*, **2020**, 857-863	0.2	
287	Feasibility of ground source heat pump using spiral coil energy piles with seepage for hotels in cold regions. *Energy Conversion and Management*, **2020**, 205, 112466	10.6	25
286	Quantitative analyses and a novel optimization strategy on negative energy-flow region in parabolic trough solar receivers. *Solar Energy*, **2020**, 196, 663-672	6.8	6
285	Energy storage and management system design optimization for a photovoltaic integrated low-energy building. *Energy*, **2020**, 190, 116424	7.9	43

284	Investigation and validation of 3D wake model for horizontal-axis wind turbines based on filed measurements. *Applied Energy*, **2020**, 260, 114272	10.7	21
283	An integrated life cycle assessment of different fa□de systems for a typical residential building in Ghana. *Sustainable Cities and Society*, **2020**, 53, 101974	10.1	21
282	Multi-criterion optimization of integrated photovoltaic facade with inter-building effects in diverse neighborhood densities. *Journal of Cleaner Production*, **2020**, 248, 119269	10.3	5
281	Wind turbine power modelling and optimization using artificial neural network with wind field experimental data. *Applied Energy*, **2020**, 280, 115880	10.7	31
280	Influences of different factors on the three-dimensional heat transfer of spiral-coil energy pile group with seepage. *International Journal of Low-Carbon Technologies*, **2020**, 15, 458-470	2.8	3
279	A review of full-scale wind-field measurements of the wind-turbine wake effect and a measurement of the wake-interaction effect. *Renewable and Sustainable Energy Reviews*, **2020**, 132, 110042	16.2	26
278	Daylighting and overall energy performance of a novel semi-transparent photovoltaic vacuum glazing in different climate zones. *Applied Energy*, **2020**, 276, 115414	10.7	20
277	Investigation on dynamic behaviour of condensation heat transfer in indirective evaporative cooler. *Indoor and Built Environment*, **2020**, 1420326X2094441	1.8	1
276	Numerical investigation of the average wind speed of a single wind turbine and development of a novel three-dimensional multiple wind turbine wake model. *Renewable Energy*, **2020**, 147, 192-203	8.1	29
275	Wake modeling of wind turbines using machine learning. *Applied Energy*, **2020**, 257, 114025	10.7	64
274	Determination of the optimal thickness of vertical air channels in double-skin solar fa□des. *Energy Procedia*, **2019**, 158, 1255-1260	2.3	1
273	A novel transparent thermal insulation bilayer coating based on ATO/Black TiO2. *Energy Procedia*, **2019**, 158, 1072-1079	2.3	4
272	Comparative study on a newly-developed three-dimensional wind turbine wake model. *Energy Procedia*, **2019**, 158, 148-153	2.3	1
271	Investigation on the thermal performance of a novel vacuum PV glazing in different climates. *Energy Procedia*, **2019**, 158, 706-711	2.3	11
270	Thermal regulation of PV fa□de integrated with thin-film solar cells through a naturally ventilated open air channel. *Energy Procedia*, **2019**, 158, 1208-1214	2.3	10
269	Exploring the optimization potential of thermal and power performance for a low-energy high-rise building. *Energy Procedia*, **2019**, 158, 2469-2474	2.3	4
268	Performance Study on an Unglazed Photovoltaic Thermal Collector Running in Sichuan Basin. *Energy Procedia*, **2019**, 158, 1249-1254	2.3	1
267	A statistical modeling approach on the performance prediction of indirect evaporative cooling energy recovery systems. *Applied Energy*, **2019**, 255, 113832	10.7	32

266	Investigation of wind turbine performance coupling wake and topography effects based on LiDAR measurements and SCADA data. *Applied Energy*, **2019**, 255, 113816	10.7	27
265	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. *Energy*, **2019**, 172, 1-17	7.9	37
264	Heat transfer pattern judgment and thermal performance enhancement of insulation air layers in building envelopes. *Applied Energy*, **2019**, 250, 834-845	10.7	17
263	A proportional□integral (PI) law based variable speed technology for temperature control in indirect evaporative cooling system. *Applied Energy*, **2019**, 251, 113390	10.7	11
262	Thermodynamic and economic analysis of a combined plant for power and water production. *Journal of Cleaner Production*, **2019**, 228, 521-532	10.3	4
261	A review and outlook for integrated BIM application in green building assessment. *Sustainable Cities and Society*, **2019**, 48, 101576	10.1	47
260	Overview on hybrid solar photovoltaic-electrical energy storage technologies for power supply to buildings. *Energy Conversion and Management*, **2019**, 187, 103-121	10.6	82
259	Thermal performance improvement using unilateral spiral ribbed absorber tube for parabolic trough solar collector. *Solar Energy*, **2019**, 183, 371-385	6.8	24
258	Flow and heat transfer characteristics of natural convection in vertical air channels of double-skin solar fa□des. *Applied Energy*, **2019**, 242, 107-120	10.7	32
257	Testing and modelling an unglazed photovoltaic thermal collector for application in Sichuan Basin. *Applied Energy*, **2019**, 242, 931-941	10.7	17
256	Investigation into offshore wind farm repowering optimization in Hong Kong. *International Journal of Low-Carbon Technologies*, **2019**, 14, 302-311	2.8	17
255	Development of walkable photovoltaic floor tiles used for pavement. *Energy Conversion and Management*, **2019**, 183, 764-771	10.6	33
254	Thermodynamic investigation and optimization of a heat pump coupled open-air, open-water humidification dehumidification desalination system with a direct contact dehumidifier. *Desalination*, **2019**, 469, 114101	10.3	18
253	Optical performance of parabolic trough solar collectors under condition of multiple optical factors. *Applied Thermal Engineering*, **2019**, 160, 114070	5.8	11
252	Impacts of non-ideal optical factors on the performance of parabolic trough solar collectors. *Energy* , **2019**, 183, 1150-1165	7.9	5
251	Validations of three-dimensional wake models with the wind field measurements in complex terrain. *Energy*, **2019**, 189, 116213	7.9	16
250	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. *Journal of Cleaner Production*, **2019**, 220, 313-330	10.3	25
249	Development and application of a dynamic model for a solar assisted liquid desiccant air conditioning system. *Science and Technology for the Built Environment*, **2019**, 25, 128-138	1.8	4

248	Investigation into spacing restriction and layout optimization of wind farm with multiple types of wind turbines. *Energy*, **2019**, 168, 637-650	7.9	38
247	Thermodynamic and economic investigation of a humidification dehumidification desalination system driven by low grade waste heat. *Energy Conversion and Management*, **2019**, 183, 848-858	10.6	21
246	Numerical study on indirect evaporative coolers considering condensation: A thorough comparison between cross flow and counter flow. *International Journal of Heat and Mass Transfer*, **2019**, 131, 472-486	4.9	36
245	Investigation on the energy performance of a novel semi-transparent BIPV system integrated with vacuum glazing. *Building Simulation*, **2019**, 12, 29-39	3.9	20
244	Integrated energy performance optimization of a passively designed high-rise residential building in different climatic zones of China. *Applied Energy*, **2018**, 215, 145-158	10.7	39
243	Overall energy assessment and integration optimization process of semitransparent PV glazing technologies. *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 473-490	6.8	10
242	A general distributed parameter model for ground heat exchangers with arbitrary shape and type of heat sources. *Energy Conversion and Management*, **2018**, 164, 667-679	10.6	9
241	Study on the impact of blades wrap angle on the performance of pumps as turbines used in water supply system of high-rise buildings. *International Journal of Low-Carbon Technologies*, **2018**, 13, 102-108	2.8	5
240	A new algorithm for obtaining the critical tube diameter and intercept factor of parabolic trough solar collectors. *Energy*, **2018**, 150, 451-467	7.9	9
239	Development of inline hydroelectric generation system from municipal water pipelines. *Energy*, **2018**, 144, 535-548	7.9	14
238	Single layer molybdenum disulfide as an optical nanoprobe for 2 photon luminescence and second harmonic generation cell imaging. *Journal of Biophotonics*, **2018**, 11, e201700354	3.1	1
237	Secondary crystal growth for efficient planar perovskite solar cells in ambient atmosphere. *Organic Electronics*, **2018**, 58, 119-125	3.5	3
236	Simulation-based approach to optimize passively designed buildings: A case study on a typical architectural form in hot and humid climates. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 1712-1725	10.2	48
235	Investigation on solar assisted liquid desiccant dehumidifier and evaporative cooling system for fresh air treatment. *Energy*, **2018**, 143, 114-127	7.9	45
234	TiO2/antimony-doped tin oxide: Highly water-dispersed nano composites with excellent IR insulation and super-hydrophilic property. *Solar Energy Materials and Solar Cells*, **2018**, 174, 499-508	6.4	27
233	Investigation on the Regeneration and Corrosion Characteristics of an Anodized Aluminum Plate Regenerator. *Energies*, **2018**, 11, 1209	3.1	11
232	Numerical investigation of a novel vacuum photovoltaic curtain wall and integrated optimization of photovoltaic envelope systems. *Applied Energy*, **2018**, 229, 1048-1060	10.7	25
231	Effects of different block designs on the performance of inline cross-flow turbines in urban water mains. *Applied Energy*, **2018**, 228, 97-107	10.7	13

230	A Review of the Energy Performance and Life-Cycle Assessment of Building-Integrated Photovoltaic (BIPV) Systems. *Energies*, **2018**, 11, 3157	3.1	59
229	Study on three wake models' effect on wind energy estimation in Hong Kong. *Energy Procedia*, **2018**, 145, 271-276	2.3	3
228	Optimal thickness determination of insulating air layers in building envelopes. *Energy Procedia*, **2018**, 152, 444-449	2.3	3
227	Effects of key factors on the heat insulation performance of a hollow block ventilated wall. *Applied Energy*, **2018**, 232, 409-423	10.7	12
226	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. *Applied Energy*, **2018**, 232, 157-186	10.7	91
225	Soil thermal imbalance of ground source heat pump systems with spiral-coil energy pile groups under seepage conditions and various influential factors. *Energy Conversion and Management*, **2018**, 178, 123-136	10.6	42
224	Comparative study of on-off control and novel high-low control of regenerative indirect evaporative cooler (RIEC). *Applied Energy*, **2018**, 225, 233-243	10.7	17
223	Core-shell CoMoO4@Ni(OH)2 on ordered macro-porous electrode plate for high-performance supercapacitor. *Electrochimica Acta*, **2018**, 283, 538-547	6.7	20
222	Study on an innovative three-dimensional wind turbine wake model. *Applied Energy*, **2018**, 226, 483-493	10.7	51
221	Investigation on the heat transfer of energy piles with two-dimensional groundwater flow. *International Journal of Low-Carbon Technologies*, **2017**, 12, 43-50	2.8	6
220	TEOS/silane coupling agent composed double layers structure: A novel super-hydrophilic coating with controllable water contact angle value. *Applied Energy*, **2017**, 185, 2209-2216	10.7	38
219	Study on an internally-cooled liquid desiccant dehumidifier with CFD model. *Applied Energy*, **2017**, 194, 399-409	10.7	37
218	Parameter sensitivity analysis and configuration optimization of indirect evaporative cooler (IEC) considering condensation. *Applied Energy*, **2017**, 194, 440-453	10.7	51
217	Experimental study of the flow characteristics in a falling film liquid desiccant dehumidifier. *Science and Technology for the Built Environment*, **2017**, 23, 157-165	1.8	4
216	Micro hydro power generation from water supply system in high rise buildings using pump as turbines. *Energy*, **2017**, 137, 431-440	7.9	55
215	TiO2/silane coupling agent composed of two layers structure: A super-hydrophilic self-cleaning coating applied in PV panels. *Applied Energy*, **2017**, 204, 932-938	10.7	33
214	Parametric study of passive design strategies for high-rise residential buildings in hot and humid climates: miscellaneous impact factors. *Renewable and Sustainable Energy Reviews*, **2017**, 69, 442-460	16.2	40
213	A Proposed New Weighting System for Passive Design Approach in BEAM Plus. *Energy Procedia*, **2017**, 105, 2113-2118	2.3	6

212	Critical Success Factors for integrating renewable energy development in a country with 2 systems: The case of Pearl River Delta and Hong Kong SAR in China. *Energy Policy*, **2017**, 107, 480-487	7.2	9
211	Hole Blocking Layer-Free Perovskite Solar Cells with over 15% Efficiency. *Energy Procedia*, **2017**, 105, 188-193	2.3	7
210	Water-Soluble Polymeric Interfacial Material for Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 14129-14135	9.5	8
209	Developing a robust assessment system for the passive design approach in the green building rating scheme of Hong Kong. *Journal of Cleaner Production*, **2017**, 153, 176-194	10.3	16
208	Comparison of energy performance between PV double skin facades and PV insulating glass units. *Applied Energy*, **2017**, 194, 148-160	10.7	110
207	A multi-stage optimization of passively designed high-rise residential buildings in multiple building operation scenarios. *Applied Energy*, **2017**, 206, 541-557	10.7	55
206	Hierarchical CoMoO4@Co3O4 nanocomposites on an ordered macro-porous electrode plate as a multi-dimensional electrode in high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 17312-17324	13	65
205	Experimental research on a novel porous ceramic tube type indirect evaporative cooler. *Applied Thermal Engineering*, **2017**, 125, 1191-1199	5.8	28
204	A detailed study on the effects of sunshape and incident angle on the optical performance of parabolic trough solar collectors. *Applied Thermal Engineering*, **2017**, 126, 81-91	5.8	14
203	Hierarchical Grass Like NiCo 2 O 4 Nanoflakes on 3-Dimensional Microporous Electrically Conductive Network with Superior Electrochemical Performance. *Energy Procedia*, **2017**, 105, 4848-4853	2.3	4
202	Feasibility Study of Developing a Zero-carbon-emission Green Deck in Hong Kong. *Energy Procedia*, **2017**, 105, 1155-1159	2.3	2
201	Development of an Antimony Doped Tin Oxide/TiO2 Double-Layers Coated HGM: A High Reflectivity and Low Transmittance Building Thermal Conservation Material. *Energy Procedia*, **2017**, 105, 4128-4132	2.3	4
200	Experimental Study on Thermal Performance of Semi-transparent PV Window in Winter in Hong Kong. *Energy Procedia*, **2017**, 105, 864-868	2.3	11
199	Long term performance analysis of a standalone photovoltaic system under real conditions. *Applied Energy*, **2017**, 201, 320-331	10.7	34
198	Study on heat transfer of pile foundation ground heat exchanger with three-dimensional groundwater seepage. *International Journal of Heat and Mass Transfer*, **2017**, 105, 58-66	4.9	29
197	Developing a meta-model for sensitivity analyses and prediction of building performance for passively designed high-rise residential buildings. *Applied Energy*, **2017**, 194, 422-439	10.7	49
196	Sensitivity analysis and optimization of a typical passively designed residential building with hybrid ventilation in hot and humid climates. *Energy Procedia*, **2017**, 142, 1781-1786	2.3	3
195	Study on offshore wind farm layout optimization based on decommissioning strategy. *Energy Procedia*, **2017**, 143, 566-571	2.3	12

194	Energy Performance of Solar Assisted Desiccant Enhanced Evaporative Cooling Air conditioning System. *Procedia Engineering*, **2017**, 205, 4195-4202		0
193	Energy Saving Potential of Hybrid Liquid Desiccant and Evaporative Cooling Air-conditioning System in Hong Kong. *Energy Procedia*, **2017**, 105, 2125-2130	2.3	11
192	Exploration on the reverse calculation method of groundwater velocity by means of the moving line heat source. *International Journal of Thermal Sciences*, **2016**, 99, 52-63	4.1	7
191	Indirect evaporative cooler considering condensation from primary air: Model development and parameter analysis. *Building and Environment*, **2016**, 95, 330-345	6.5	59
190	An optimization method for design and operation of combined cooling, heating, and power systems toward a smart grid. *Science and Technology for the Built Environment*, **2016**, 22, 766-782	1.8	5
189	Probability adjoint identification of airborne pollutant sources depending on one sensor in a ventilated enclosure with conjugate heat and species transports. *International Journal of Heat and Mass Transfer*, **2016**, 102, 919-933	4.9	10
188	Performance improvement of a vertical axis wind turbine by comprehensive assessment of an airfoil family. *Energy*, **2016**, 114, 318-331	7.9	35
187	An Exhaustive Parametric Study on Major Passive Design Strategies of a Typical High-rise Residential Building in Hong Kong. *Energy Procedia*, **2016**, 88, 748-753	2.3	4
186	Parameter Sensitivity Analysis of Indirect Evaporative Cooler (IEC) with Condensation from Primary Air. *Energy Procedia*, **2016**, 88, 498-504	2.3	7
185	Experimental study of plate type air cooler performances under four operating modes. *Building and Environment*, **2016**, 104, 296-310	6.5	21
184	The super-hydrophobic IR-reflectivity TiO2 coated hollow glass microspheres synthesized by soft-chemistry method. *Journal of Physics and Chemistry of Solids*, **2016**, 98, 43-49	3.9	7
183	The application of air layers in building envelopes: A review. *Applied Energy*, **2016**, 165, 707-734	10.7	96
182	Numerical investigation of the energy saving potential of a semi-transparent photovoltaic double-skin facade in a cool-summer Mediterranean climate. *Applied Energy*, **2016**, 165, 345-356	10.7	141
181	Island-like mesoporous amorphous Fe 2 O 3 layer: surface disorder engineering for enhanced lithium-storage performance. *Electrochimica Acta*, **2016**, 188, 679-685	6.7	6
180	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. *Applied Thermal Engineering*, **2016**, 94, 24-39	5.8	23
179	Developing a method and simulation model for evaluating the overall energy performance of a ventilated semi-transparent photovoltaic double-skin facade. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 781-799	6.8	39
178	Wind tunnel investigation on the two- and three-blade Savonius rotor with central shaft at different gap ratio. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 013303	2.5	5
177	Investigation on groundwater velocity based on the finite line heat source seepage model. *International Journal of Heat and Mass Transfer*, **2016**, 99, 391-401	4.9	8

176	Investigation on the performance of a heat recovery ventilator in different climate regions in China. *Energy*, **2016**, 104, 85-98	7.9	14
175	Optimization of wind turbine layout position in a wind farm using a newly-developed two-dimensional wake model. *Applied Energy*, **2016**, 174, 192-200	10.7	114
174	Assessing the Thermal Performance of Temporary Shelters. *Procedia Engineering*, **2016**, 159, 174-178		15
173	Model simplification of scroll compressor with vapor refrigerant injection. *International Journal of Green Energy*, **2016**, 13, 803-811	3	3
172	Application of CFD Model in Analyzing the Performance of a Liquid Desiccant Dehumidifier. *Energy Procedia*, **2016**, 88, 491-497	2.3	2
171	A holistic passive design approach to optimize indoor environmental quality of a typical residential building in Hong Kong. *Energy*, **2016**, 113, 267-281	7.9	46
170	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. *Energy*, **2016**, 112, 538-548	7.9	52
169	Comparative study of the thermal and power performances of a semi-transparent photovoltaic façade under different ventilation modes. *Applied Energy*, **2015**, 138, 572-583	10.7	94
168	Study on spiral source models revealing groundwater transfusion effects on pile foundation ground heat exchangers. *International Journal of Heat and Mass Transfer*, **2015**, 84, 119-129	4.9	40
167	Thermoelectric mini cooler coupled with micro thermosiphon for CPU cooling system. *Energy*, **2015**, 83, 29-36	7.9	70
166	Validation of the Sandia model with indoor and outdoor measurements for semi-transparent amorphous silicon PV modules. *Renewable Energy*, **2015**, 80, 316-323	8.1	46
165	A comprehensive review on passive design approaches in green building rating tools. *Renewable and Sustainable Energy Reviews*, **2015**, 50, 1425-1436	16.2	151
164	Experimental study of internally cooled liquid desiccant dehumidification: Application in Hong Kong and intensive analysis of influencing factors. *Building and Environment*, **2015**, 93, 210-220	6.5	37
163	A comprehensive review of the theoretical approaches for the airfoil design of lift-type vertical axis wind turbine. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 1709-1720	16.2	17
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