

Lin Lu

List of Publications by Year in Descending Order

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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.

243
papers

10,276
citations

47
h-index

94
g-index

246
ext. papers

12,287
ext. citations

6.5
avg, IF

7.11
L-index

#	Paper	IF	Citations
243	The techno-economic feasibility of a coastal zero-energy hotel building supported by the hybrid wind-wave energy system. <i>Sustainable Energy, Grids and Networks</i> , 2022 , 30, 100650	3.6	0
242	Enhancing the spectral tunability of localized surface plasmon resonance and small polaron transfer in Li-doped CsxWO3 nanocrystals for energy-efficient windows. <i>Solar Energy</i> , 2022 , 231, 228-235	6.8	0
241	Study on mass transfer performance and membrane resistance in concentration of high salinity solutions by electrodialysis. <i>Separation and Purification Technology</i> , 2022 , 281, 119907	8.3	2
240	A Novel Surge Damping Method for Hydraulic Transients with Operating Pump Using an Optimized Valve Control Strategy. <i>Water (Switzerland)</i> , 2022 , 14, 1576	3	
239	Oxygen defect-induced small polaron transfer for controlling the near-infrared absorption coefficient of hexagonal cesium tungsten bronze nanocrystals. <i>Ceramics International</i> , 2021 , 48, 6942-6942	5.1	0
238	Enhanced spectral modulation of CsxWO3 nanocrystals through anionic doping for energy-efficient glazing. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 236, 111519	6.4	0
237	Improved hybrid inexact optimal scheduling of virtual powerplant (VPP) for zero-carbon multi-energy system (ZCMES) incorporating Electric Vehicle (EV) multi-flexible approach. <i>Journal of Cleaner Production</i> , 2021 , 326, 129294	10.3	4
236	Novel one-pot solvothermal synthesis and phase-transition mechanism of hexagonal Cs WO3 nanocrystals with superior near-infrared shielding property for energy-efficient windows. <i>Solar Energy</i> , 2021 , 230, 401-408	6.8	5
235	Thermal-hydraulic characteristic of short-length self-rotating twisted tapes in a circular tube. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 122, 105157	5.8	4
234	Thermal performance assessment of self-rotating twisted tapes and Al2O3 nanoparticle in a circular pipe. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 32, 77-86	3.2	
233	Developing a tier-hybrid uncertainty analysis approach for lifecycle impact assessment of a typical high-rise residential building. <i>Resources, Conservation and Recycling</i> , 2021 , 167, 105424	11.9	2
232	Turbulent heat transfer and flow analysis of hybrid Al2O3-CuO/water nanofluid: An experiment and CFD simulation study. <i>Applied Thermal Engineering</i> , 2021 , 188, 116589	5.8	16
231	Mass transfer enhancement of falling film liquid desiccant dehumidification by micro-baffle plates. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120945	4.9	8
230	Numerical Research of Pump-as-Turbine Performance with Synergy Analysis. <i>Processes</i> , 2021 , 9, 1031	2.9	2
229	A new study on passive radiative sky cooling resource maps of China. <i>Energy Conversion and Management</i> , 2021 , 237, 114132	10.6	8
228	Review on the fundamentals and investigations of falling film dehumidification/absorption refrigeration based on CFD technology. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121042	4.9	5
227	Development of a new spectral selectivity-based passive radiative roof cooling model and its application in hot and humid region. <i>Journal of Cleaner Production</i> , 2021 , 307, 127170	10.3	9

226	pH-dependent doping level and optical performance of antimony-doped tin oxide nanocrystals as nanofillers of spectrally selective coating for energy-efficient windows. <i>Ceramics International</i> , 2021 , 47, 20335-20340	5.1	5
225	Spraying fabrication of spectrally selective coating with improved near-infrared shielding performance for energy-efficient glazing. <i>Ceramics International</i> , 2021 , 47, 18991-18997	5.1	7
224	Comprehensive evaluation of thermal and energy performance of radiative roof cooling in buildings. <i>Journal of Building Engineering</i> , 2021 , 33, 101631	5.2	9
223	Experimental study and CFD modelling on the thermal and flow behavior of EG/water ZnO nanofluid in multiport mini channels. <i>Applied Thermal Engineering</i> , 2021 , 182, 116089	5.8	11
222	CFD simulation of liquid desiccant dehumidifier performance with smooth and rough plates. <i>International Journal of Refrigeration</i> , 2021 , 124, 1-12	3.8	6
221	Transparent and Colored Solar Photovoltaics for Building Integration. <i>Solar Rrl</i> , 2021 , 5, 2000614	7.1	9
220	Design method for heating towers used in vapor-compression heat pump systems. <i>Building and Environment</i> , 2021 , 189, 107532	6.5	4
219	Biomass-derived nitrogen self-doped porous activation carbon as an effective bifunctional electrocatalysts. <i>Chinese Chemical Letters</i> , 2021 , 32, 92-98	8.1	9
218	One-step fabrication of a laser-induced forward transfer graphene/CuxO nanocomposite-based electrocatalyst to promote hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16470-16478	13	16478
217	A novel multi-objective stochastic risk co-optimization model of a zero-carbon multi-energy system (ZCMES) incorporating energy storage aging model and integrated demand response. <i>Energy</i> , 2021 , 226, 120258	7.9	11
216	Experimental study on the thermal and flow characteristics of ZnO/water nanofluid in mini-channels integrated with GA-optimized ANN prediction and CFD simulation. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 178, 121617	4.9	6
215	Stochastic optimal planning scheme of a zero-carbon multi-energy system (ZC-MES) considering the uncertainties of individual energy demand and renewable resources: An integrated chance-constrained and decomposition algorithm (CC-DA) approach. <i>Energy</i> , 2021 , 232, 121000	7.9	6
214	Experimental and artificial neural network based study on the heat transfer and flow performance of ZnO-EG/water nanofluid in a mini-channel with serrated fins. <i>International Journal of Thermal Sciences</i> , 2021 , 170, 107149	4.1	6
213	Thermal and economic evaluation of phase change material volume fraction for thermocline tank used in concentrating solar power plants. <i>Applied Energy</i> , 2020 , 267, 115054	10.7	15
212	Experimental investigation on deposition reduction of different types of dust on solar PV cells by self-cleaning coatings. <i>Solar Energy</i> , 2020 , 206, 365-373	6.8	19
211	Plasmonic and Superhydrophobic Self-Decontaminating N95 Respirators. <i>ACS Nano</i> , 2020 , 14, 8846-8854	6.7	46
210	Pore-scale investigation on effects of void cavity distribution on melting of composite phase change materials. <i>Applied Energy</i> , 2020 , 275, 115302	10.7	9
209	Effect of device models on the multiobjective optimal operation of CCHP microgrids considering shiftable loads. <i>Applied Energy</i> , 2020 , 275, 115369	10.7	14

208	A new analytical model for short vertical ground heat exchangers with Neumann and Robin boundary conditions on ground surface. <i>International Journal of Thermal Sciences</i> , 2020 , 152, 106326	4.1	10
207	Investigation on the optical and energy performances of different kinds of monolithic aerogel glazing systems. <i>Applied Energy</i> , 2020 , 261, 114487	10.7	4
206	Enhancing the falling film dehumidification performance from the prospective of CFD simulation. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 151, 119459	4.9	7
205	Bypass pigging technology on amelioration of pigging-induced liquid flow: An experimental and modelling study. <i>Ocean Engineering</i> , 2020 , 198, 106974	3.9	8
204	The effect of urban morphology on the solar capacity of three-dimensional cities. <i>Renewable Energy</i> , 2020 , 153, 1111-1126	8.1	15
203	Thermal performance analysis of thermocline combined sensible-latent heat storage system using cascaded-layered PCM designs for medium temperature applications. <i>Renewable Energy</i> , 2020 , 152, 684-697	8.1	29
202	System-scale modeling and membrane structure parameter optimization for solar-powered sweeping gas membrane distillation desalination system. <i>Journal of Cleaner Production</i> , 2020 , 253, 119968	10.3	9
201	A novel analytical multilayer cylindrical heat source model for vertical ground heat exchangers installed in layered ground. <i>Energy</i> , 2020 , 200, 117545	7.9	12
200	Reusable and Recyclable Graphene Masks with Outstanding Superhydrophobic and Photothermal Performances. <i>ACS Nano</i> , 2020 , 14, 6213-6221	16.7	179
199	Synthesis and characterization of Sb-doped SnO ₂ with high near-infrared shielding property for energy-efficient windows by a facile dual-titration co-precipitation method. <i>Ceramics International</i> , 2020 , 46, 18518-18525	5.1	12
198	Performance prediction of Building Integrated Photovoltaics under no-shading, shading and masking conditions using a multi-physics model. <i>Energy</i> , 2020 , 213, 118795	7.9	5
197	Fundamentals and applications of CFD technology on analyzing falling film heat and mass exchangers: A comprehensive review. <i>Applied Energy</i> , 2020 , 261, 114473	10.7	30
196	Modelling on space-domain surface waves of vertical low-Re falling film and the enhancement on mass transfer in halide-solution/air absorption. <i>Chemical Engineering Science</i> , 2020 , 215, 115459	4.4	6
195	Modeling and performance analysis of a fully solar-powered stand-alone sweeping gas membrane distillation desalination system for island and coastal households. <i>Energy Conversion and Management</i> , 2020 , 205, 112375	10.6	21
194	Falling film liquid desiccant air dehumidification. <i>Experimental and Computational Multiphase Flow</i> , 2020 , 2, 187-198	4.2	3
193	Characterization of bypass pig velocity in gas pipeline: An experimental and analytical study. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 73, 103059	4.6	5
192	An integrated life cycle assessment of different facade systems for a typical residential building in Ghana. <i>Sustainable Cities and Society</i> , 2020 , 53, 101974	10.1	21
191	Thermal management of the waste energy of a stand-alone hybrid PV-wind-battery power system in Hong Kong. <i>Energy Conversion and Management</i> , 2020 , 203, 112261	10.6	16

190	Thermal properties measurement and performance evaluation of water/ZnO nanofluid in a mini channel with offset fins. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120361	4.9	15
189	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
188	Development of radiative cooling and its integration with buildings: A comprehensive review. <i>Solar Energy</i> , 2020 , 212, 125-151	6.8	22
187	Deposition characteristics of particles in inclined heat exchange channel with surface ribs. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 161, 120289	4.9	2
186	A novel optimal configuration model for a zero-carbon multi-energy system (ZC-MES) integrated with financial constraints. <i>Sustainable Energy, Grids and Networks</i> , 2020 , 23, 100381	3.6	6
185	Thermal characteristics of perforated self-rotating twisted tapes in a double-pipe heat exchanger. <i>Applied Thermal Engineering</i> , 2019 , 162, 114296	5.8	14
184	Numerical study on polydispersed dust pollution process on solar photovoltaic panels mounted on a building roof. <i>Energy Procedia</i> , 2019 , 158, 879-884	2.3	7
183	Investigation on the regeneration characteristics of LiCl solution with PVP and MWNTs. <i>Energy Procedia</i> , 2019 , 158, 669-674	2.3	1
182	Thermal and daylighting performance of glass window using a newly developed transparent heat insulated coating. <i>Energy Procedia</i> , 2019 , 158, 1080-1085	2.3	3
181	Thermal regulation of PV façade integrated with thin-film solar cells through a naturally ventilated open air channel. <i>Energy Procedia</i> , 2019 , 158, 1208-1214	2.3	10
180	Enhancing the dehumidification efficiency of solar-assisted liquid desiccant air dehumidifiers using nanoscale TiO ₂ super-hydrophilic coating. <i>Energy Procedia</i> , 2019 , 158, 5765-5769	2.3	5
179	Numerical investigation on monodispersed particle deposition in turbulent duct flow with thermophoresis. <i>Energy Procedia</i> , 2019 , 158, 5711-5716	2.3	3
178	Development and investigation on the dehumidification and corrosion resistance performance of a new mixed liquid desiccant. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 72-82	4.9	19
177	Performance evaluation of a double-pipe heat exchanger fitted with self-rotating twisted tapes. <i>Applied Thermal Engineering</i> , 2019 , 158, 113770	5.8	24
176	A review and outlook for integrated BIM application in green building assessment. <i>Sustainable Cities and Society</i> , 2019 , 48, 101576	10.1	47
175	Analysis of Hong Kong's Wind Energy: Power Potential, Development Constraints, and Experiences from Other Countries for Local Wind Energy Promotion Strategies. <i>Sustainability</i> , 2019 , 11, 924	3.6	5
174	Optimization of thermal performance in thermocline tank thermal energy storage system with the multilayered PCM(s) for CSP tower plants. <i>Applied Energy</i> , 2019 , 243, 175-190	10.7	36
173	Thermal and economic evaluation of thermocline combined sensible-latent heat thermal energy storage system for medium temperature applications. <i>Energy Conversion and Management</i> , 2019 , 189, 14-23	10.6	47

172	Performance enhancement of solar-assisted liquid desiccant dehumidifiers using super-hydrophilic surface. <i>Energy and Buildings</i> , 2019 , 199, 461-471	7	10
171	A new analytical heat transfer model for deep borehole heat exchangers with coaxial tubes. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 141, 1056-1065	4.9	35
170	Experimental investigation on non-boiling heat transfer of two-component air-oil and air-water slug flow in horizontal pipes. <i>International Journal of Multiphase Flow</i> , 2019 , 119, 28-41	3.6	12
169	A review of correlations and enhancement approaches for heat and mass transfer in liquid desiccant dehumidification system. <i>Applied Energy</i> , 2019 , 239, 757-784	10.7	50
168	Overall Energy Performance Assessment of a New Heat Blocking Coating. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019 , 7, 1-12	1.9	2
167	Numerical and experimental study on internally cooled liquid desiccant dehumidification concerning film shrinkage shape and vapor condensation. <i>International Journal of Thermal Sciences</i> , 2019 , 136, 316-327	4.1	14
166	Overall energy assessment of semi-transparent photovoltaic insulated glass units for building integration under different climate conditions. <i>Renewable Energy</i> , 2019 , 134, 818-827	8.1	13
165	A new model to evaluate solar spectrum impacts on the short circuit current of solar photovoltaic modules. <i>Energy</i> , 2019 , 169, 29-37	7.9	9
164	Single layer molybdenum disulfide as an optical nanoprobe for 2 photon luminescence and second harmonic generation cell imaging. <i>Journal of Biophotonics</i> , 2018 , 11, e201700354	3.1	1
163	Experimental investigation and development of new correlation for flow boiling heat transfer in mini-channel. <i>International Journal of Thermal Sciences</i> , 2018 , 129, 209-217	4.1	14
162	Analyzing wind cleaning process on the accumulated dust on solar photovoltaic (PV) modules on flat surfaces. <i>Solar Energy</i> , 2018 , 159, 1031-1036	6.8	39
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	6.4	27
160	Investigation on the Regeneration and Corrosion Characteristics of an Anodized Aluminum Plate Regenerator. <i>Energies</i> , 2018 , 11, 1209	3.1	11
159	Investigation on the regeneration performance of liquid desiccant by adding surfactant PVP-K30. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 445-454	4.9	29
158	Comparative study of the regeneration characteristics of LiCl and a new mixed liquid desiccant solution. <i>Energy</i> , 2018 , 163, 992-1005	7.9	17
157	Experimental and numerical study on the regeneration performance of LiCl solution with surfactant and nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 154-164	4.9	23
156	Integrated effects of PM _{2.5} deposition, module surface conditions and nanocoatings on solar PV surface glass transmittance. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 4107-4120	16.2	11
155	Development and experimental study of a novel plate dehumidifier made of anodized aluminum. <i>Energy</i> , 2018 , 144, 169-177	7.9	28

154	Investigating dehumidification performance of solar-assisted liquid desiccant dehumidifiers considering different surface properties. <i>Energy</i> , 2018 , 164, 978-994	7.9	21
153	Investigation on the dehumidification performance of LiCl/H ₂ O-MWNTs nanofluid in a falling film dehumidifier. <i>Building and Environment</i> , 2018 , 139, 8-16	6.5	31
152	Simulation of thermo-mechanical performance of pile geothermal heat exchanger (PGHE) considering temperature-depend interface behavior. <i>Applied Thermal Engineering</i> , 2018 , 139, 356-366	5.8	8
151	Enhancing the dehumidification performance of LiCl solution with surfactant PVP-K30. <i>Energy and Buildings</i> , 2018 , 171, 183-195	7	31
150	Investigation on the heat transfer of energy piles with two-dimensional groundwater flow. <i>International Journal of Low-Carbon Technologies</i> , 2017 , 12, 43-50	2.8	6
149	Preparation and overall energy performance assessment of wide waveband two-component transparent NIR shielding coatings. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 119-129	6.4	26
148	Evaluation of potential benefits of solar photovoltaic shadings in Hong Kong. <i>Energy</i> , 2017 , 137, 1152-1158	5.8	48
147	Energy performance and heat transfer characteristics of photovoltaic double skin facades (PV-DSFs): a review. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1502-1515	5.8	4
146	Optimal design and analysis of a new CHP-HP integrated system. <i>Energy Conversion and Management</i> , 2017 , 146, 217-227	10.6	10
145	Model development of heat/mass transfer for internally cooled dehumidifier concerning liquid film shrinkage shape and contact angles. <i>Building and Environment</i> , 2017 , 114, 11-22	6.5	28
144	Performance Evaluation of Vacuum Photovoltaic Insulated Glass Unit. <i>Energy Procedia</i> , 2017 , 105, 322-326	2.3	24
143	Development of evaporation pressure-capacity control strategy for aircraft vapor cycle system. <i>International Journal of Refrigeration</i> , 2017 , 83, 14-22	3.8	12
142	Feasibility Study of Developing a Zero-carbon-emission Green Deck in Hong Kong. <i>Energy Procedia</i> , 2017 , 105, 1155-1159	2.3	2
141	A Novel CHP-HP Coupling System and its Optimization Analysis by Genetic Algorithm. <i>Energy Procedia</i> , 2017 , 105, 2089-2094	2.3	1
140	Experimental study on dehumidification performance enhancement by TiO ₂ superhydrophilic coating for liquid desiccant plate dehumidifiers. <i>Building and Environment</i> , 2017 , 124, 219-231	6.5	39
139	Experimental Study on Thermal Performance of Semi-transparent PV Window in Winter in Hong Kong. <i>Energy Procedia</i> , 2017 , 105, 864-868	2.3	11
138	Antimony Doped tin Oxide/Multi-walled Carbon Nanotubes: Highly Near-infrared Blocking Coating used for Heat Conservation Windows. <i>Energy Procedia</i> , 2017 , 105, 4836-4841	2.3	2
137	Investigation of particle deposition efficiency enhancement in turbulent duct air flow by surface ribs with hybrid-size ribs. <i>Indoor and Built Environment</i> , 2017 , 26, 608-620	1.8	4

136	Long term performance analysis of a standalone photovoltaic system under real conditions. <i>Applied Energy</i> , 2017 , 201, 320-331	10.7	34
135	Numerical study of monodispersed particle deposition rates in variable-section ducts with different expanding or contracting ratios. <i>Applied Thermal Engineering</i> , 2017 , 110, 150-161	5.8	16
134	Comparative performance study on liquid desiccant dehumidification with different packing types for built environment. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 116-126	1.8	18
133	Thermal performance analysis on different types of glazing of public rental housing in Hong Kong. <i>Procedia Engineering</i> , 2017 , 205, 794-801		0
132	Investigating the Impact of Thermo-physical Property Difference between Soil and Pile on the Thermal Performance of Energy Piles. <i>Procedia Engineering</i> , 2017 , 205, 3199-3205		4
131	Life-cycle evaluation of different types of cooling systems in buildings. <i>Energy Procedia</i> , 2017 , 142, 1743-1748	1.7	1
130	Making Marble Powder Waste Profitable by Using Nano-TiO ₂ Surface Modification for Air Quality Improvement Applications. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-6	3.2	3
129	CFD investigation on particle deposition in aligned and staggered ribbed duct air flows. <i>Applied Thermal Engineering</i> , 2016 , 93, 697-706	5.8	33
128	Exploration on the reverse calculation method of groundwater velocity by means of the moving line heat source. <i>International Journal of Thermal Sciences</i> , 2016 , 99, 52-63	4.1	7
127	Development and characterization of transparent waterborne polyurethane acrylate/fullerenols thin-film nanocomposite as thermal-insulating coating. <i>Polymer Science - Series B</i> , 2016 , 58, 601-609	0.8	1
126	Numerical simulation of particle deposition in duct air flows with uniform, expanding or contracting cross-section. <i>Energy and Buildings</i> , 2016 , 128, 867-875	7	19
125	Estimation of Hong Kong's solar energy potential using GIS and remote sensing technologies. <i>Renewable Energy</i> , 2016 , 99, 325-335	8.1	63
124	Comparison of the overall energy performance of semi-transparent photovoltaic windows and common energy-efficient windows in Hong Kong. <i>Energy and Buildings</i> , 2016 , 128, 511-518	7	65
123	A novel model to estimate the cleaning frequency for dirty solar photovoltaic (PV) modules in desert environment. <i>Solar Energy</i> , 2016 , 140, 236-240	6.8	61
122	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
121	A new approach to enhance the heat and mass transfer of liquid desiccant dehumidification with a titanium dioxide superhydrophilic self-cleaning coating. <i>Journal of Cleaner Production</i> , 2016 , 112, 3555-3561	10.3	18
120	A novel composite-medium solution for pile geothermal heat exchangers with spiral coils. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 760-769	4.9	21
119	Island-like mesoporous amorphous Fe ₂ O ₃ layer: surface disorder engineering for enhanced lithium-storage performance. <i>Electrochimica Acta</i> , 2016 , 188, 679-685	6.7	6

118	Experimentally Investigating the Effect of Temperature Differences in the Particle Deposition Process on Solar Photovoltaic (PV) Modules. <i>Sustainability</i> , 2016 , 8, 1091	3.6	12
117	A Study of Incentive Policies for Building-Integrated Photovoltaic Technology in Hong Kong. <i>Sustainability</i> , 2016 , 8, 769	3.6	14
116	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
115	Long Term Performance Analysis of a 19.8kWp Standalone Photovoltaic System in a Remote Island. <i>Energy Procedia</i> , 2016 , 103, 183-188	2.3	2
114	Investigation on the dynamic characteristics of the counter-current flow for liquid desiccant dehumidification. <i>Energy</i> , 2016 , 101, 229-238	7.9	33
113	A new analytical solution for horizontal geothermal heat exchangers with vertical spiral coils. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 111-120	4.9	19
112	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
111	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
110	Numerical investigation of dust pollution on a solar photovoltaic (PV) system mounted on an isolated building. <i>Applied Energy</i> , 2016 , 180, 27-36	10.7	73
109	Comparative study of the thermal and power performances of a semi-transparent photovoltaic faade under different ventilation modes. <i>Applied Energy</i> , 2015 , 138, 572-583	10.7	94
108	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
107	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
106	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
105	A numerical study of particle deposition in ribbed duct flow with different rib shapes. <i>Building and Environment</i> , 2015 , 94, 43-53	6.5	39
104	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
103	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
102	Numerical and analytical analysis of groundwater influence on the pile geothermal heat exchanger with cast-in spiral coils. <i>Applied Energy</i> , 2015 , 160, 705-714	10.7	29
101	Investigation on influential factors of engineering design of geothermal heat exchangers. <i>Applied Thermal Engineering</i> , 2015 , 84, 310-319	5.8	30

100	A Study of Dust Accumulating Process on Solar Photovoltaic Modules with Different Surface Temperatures. <i>Energy Procedia</i> , 2015 , 75, 337-342	2.3	15
99	Development of hybrid battery-supercapacitor energy storage for remote area renewable energy systems. <i>Applied Energy</i> , 2015 , 153, 56-62	10.7	157
98	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015 , 160, 728-736	10.7	134
97	Numerical investigation on particle deposition enhancement in duct air flow by ribbed wall. <i>Building and Environment</i> , 2015 , 85, 61-72	6.5	33
96	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
95	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015 , 137, 649-659	10.7	223
94	Stand-Alone Wind Power and Hybrid Solar-Wind Power 2015 , 1-18		2
93	Effects of rib spacing and height on particle deposition in ribbed duct air flows. <i>Building and Environment</i> , 2015 , 92, 317-327	6.5	37
92	Investigation on the liquid contact angle and its influence for liquid desiccant dehumidification system. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 210-217	4.9	14
91	Parameter analysis and optimization of the energy and economic performance of solar-assisted liquid desiccant cooling system under different climate conditions. <i>Energy Conversion and Management</i> , 2015 , 106, 1387-1395	10.6	36
90	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
89	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
88	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
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