Michael Kwok Hi Leung

List of Publications by Citations

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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.

185
papers
14,994
citations
h-index

190
ext. papers

17,286
ext. citations

47
h-index
g-index

6.92
ext. citations
avg, IF
L-index

#	Paper	IF	Citations
185	A review and recent developments in photocatalytic water-splitting using TiO2 for hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2007 , 11, 401-425	16.2	3189
184	A review on biodiesel production using catalyzed transesterification. <i>Applied Energy</i> , 2010 , 87, 1083-109	95 0.7	1626
183	A review on reforming bio-ethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3238-3247	6.7	941
182	An overview of hydrogen production from biomass. <i>Fuel Processing Technology</i> , 2006 , 87, 461-472	7.2	858
181	Technological development of hydrogen production by solid oxide electrolyzer cell (SOEC). <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2337-2354	6.7	429
180	A droplet-based electricity generator with high instantaneous power density. <i>Nature</i> , 2020 , 578, 392-39)6 0.4	391
179	A review on hydrogen production using aluminum and aluminum alloys. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 845-853	16.2	352
178	Hydrogen production over titania-based photocatalysts. <i>ChemSusChem</i> , 2010 , 3, 681-94	8.3	349
177	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2404	- 2412	317
176	Nanohybridization of MoS2 with Layered Double Hydroxides Efficiently Synergizes the Hydrogen Evolution in Alkaline Media. <i>Joule</i> , 2017 , 1, 383-393	27.8	262
175	Energy and exergy analysis of hydrogen production by a proton exchange membrane (PEM) electrolyzer plant. <i>Energy Conversion and Management</i> , 2008 , 49, 2748-2756	10.6	259
174	Engineering stepped edge surface structures of MoS2 sheet stacks to accelerate the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2017 , 10, 593-603	35.4	236
173	A review of biomass-derived fuel processors for fuel cell systems. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1301-1313	16.2	216
172	Parametric study of solid oxide fuel cell performance. <i>Energy Conversion and Management</i> , 2007 , 48, 1525-1535	10.6	209
171	Potential of renewable hydrogen production for energy supply in Hong Kong. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1401-1412	6.7	192
170	Can commonly-used fan-driven air cleaning technologies improve indoor air quality? A literature review. <i>Atmospheric Environment</i> , 2011 , 45, 4329-4343	5.3	165
169	An efficient bismuth tungstate visible-light-driven photocatalyst for breaking down nitric oxide. <i>Environmental Science & Dominical Science & Dom</i>	10.3	153

168	Electrochemical Reduction of Carbon Dioxide to Formic Acid. ChemElectroChem, 2014, 1, 836-849	4.3	151
167	Parametric study of solid oxide steam electrolyzer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2305-2313	6.7	124
166	Energy and exergy analysis of hydrogen production by solid oxide steam electrolyzer plant. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4648-4660	6.7	122
165	A modeling study on concentration overpotentials of a reversible solid oxide fuel cell. <i>Journal of Power Sources</i> , 2006 , 163, 460-466	8.9	119
164	Characteristics of air exchange in a street canyon with ground heating. <i>Atmospheric Environment</i> , 2006 , 40, 6396-6409	5.3	107
163	An analytical study of the porosity effect on dye-sensitized solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 1331-1344	6.4	104
162	Micro-scale modelling of solid oxide fuel cells with micro-structurally graded electrodes. <i>Journal of Power Sources</i> , 2007 , 168, 369-378	8.9	100
161	Interfacial electron transfer and bioelectrocatalysis of carbonized plant material as effective anode of microbial fuel cell. <i>Electrochimica Acta</i> , 2015 , 157, 314-323	6.7	91
160	Hollow Carbon Fibers Derived from Natural Cotton as Effective Sorbents for Oil Spill Cleanup. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18251-18261	3.9	78
159	Ammonia-fed solid oxide fuel cells for power generation Areview. <i>International Journal of Energy Research</i> , 2009 , 33, 943-959	4.5	76
158	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4192-4198	16.4	75
157	Solar photocatalytic fuel cell using CdSIIiO2 photoanode and air-breathing cathode for wastewater treatment and simultaneous electricity production. <i>Chemical Engineering Journal</i> , 2014 , 253, 174-182	14.7	74
156	Oxidizing solid Co into hollow Co3O4 within electrospun (carbon) nanofibers towards enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3024-3030	13	72
155	Mathematical modeling of the coupled transport and electrochemical reactions in solid oxide steam electrolyzer for hydrogen production. <i>Electrochimica Acta</i> , 2007 , 52, 6707-6718	6.7	71
154	Theoretical modeling of TiO2/TCO interfacial effect on dye-sensitized solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 2000-2009	6.4	71
153	Facile preparation of PdNi/rGO and its electrocatalytic performance towards formic acid oxidation. Journal of Materials Chemistry A, 2014 , 2, 3894	13	70
152	Thermodynamic analysis of ammonia fed solid oxide fuel cells: Comparison between proton-conducting electrolyte and oxygen ion-conducting electrolyte. <i>Journal of Power Sources</i> , 2008 , 183, 682-686	8.9	68
151	Mathematical Modelling of Proton-Conducting Solid Oxide Fuel Cells and Comparison with Oxygen-Ion-Conducting Counterpart. <i>Fuel Cells</i> , 2007 , 7, 269-278	2.9	67

150	Electrochemical modeling and parametric study of methane fed solid oxide fuel cells. <i>Energy Conversion and Management</i> , 2009 , 50, 268-278	10.6	66
149	An Electrochemical Model of a Solid Oxide Steam Electrolyzer for Hydrogen Production. <i>Chemical Engineering and Technology</i> , 2006 , 29, 636-642	2	64
148	Solar photocatalytic degradation of gaseous formaldehyde by solgel TiO2 thin film for enhancement of indoor air quality. <i>Solar Energy</i> , 2004 , 77, 129-135	6.8	63
147	Mathematical modeling of ammonia-fed solid oxide fuel cells with different electrolytes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5765-5772	6.7	59
146	The self-assembly synthesis of tungsten oxide quantum dots with enhanced optical properties. Journal of Materials Chemistry C, 2015 , 3, 3280-3285	7.1	57
145	SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. <i>National Science Review</i> , 2019 , 6, 540-550	10.8	54
144	In situ deposition of Ag-Ag2S hybrid nanoparticles onto TiO2 nanotube arrays towards fabrication of photoelectrodes with high visible light photoelectrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 676-80	3.6	54
143	Modeling of methane fed solid oxide fuel cells: Comparison between proton conducting electrolyte and oxygen ion conducting electrolyte. <i>Journal of Power Sources</i> , 2008 , 183, 133-142	8.9	54
142	Facile synthesis of nitrogen and sulfur codoped carbon from ionic liquid as metal-free catalyst for oxygen reduction reaction. <i>ACS Applied Materials & amp; Interfaces,</i> 2015 , 7, 7214-21	9.5	53
141	Visible-light-assisted photocatalytic degradation of gaseous formaldehyde by parallel-plate reactor coated with Cr ion-implanted TiO2 thin film. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 54-61	6.4	52
140	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011 , 175, 310-315	5.3	51
139	Development and characteristics of a membraneless microfluidic fuel cell array. <i>Electrochimica Acta</i> , 2014 , 135, 467-477	6.7	50
138	Chaotic flow-based fuel cell built on counter-flow microfluidic network: Predicting the over-limiting current behavior. <i>Journal of Power Sources</i> , 2011 , 196, 9391-9397	8.9	47
137	Electrochemical modeling of hydrogen production by proton-conducting solid oxide steam electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4040-4047	6.7	47
136	Recent Development of Plasmonic Resonance-Based Photocatalysis and Photovoltaics for Solar Utilization. <i>Molecules</i> , 2016 , 21,	4.8	47
135	Ultrafine single-crystal TiOF2 nanocubes with mesoporous structure, high activity and durability in visible light driven photocatalysis. <i>Nanoscale</i> , 2014 , 6, 897-902	7.7	46
134	Energy analysis of hydrogen and electricity production from aluminum-based processes. <i>Applied Energy</i> , 2012 , 90, 100-105	10.7	46
133	Theoretical analysis of reversible solid oxide fuel cell based on proton-conducting electrolyte. Journal of Power Sources, 2008, 177, 369-375	8.9	46

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132	Theoretical modelling of the electrode thickness effect on maximum power point of dye-sensitized solar cell. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 86, 35-42	2.3	46	
131	Control and management of hospital indoor air quality. <i>Medical Science Monitor</i> , 2006 , 12, SR17-23	3.2	44	
130	Barriers and policy enablers for solar photovoltaics (PV) in cities: Perspectives of potential adopters in Hong Kong. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 92, 921-936	16.2	42	
129	Controlling charge transfer in quantum-size titania for photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2017 , 215, 85-92	21.8	40	
128	Recycling LiCoO2 with methanesulfonic acid for regeneration of lithium-ion battery electrode materials. <i>Journal of Power Sources</i> , 2019 , 436, 226828	8.9	40	
127	Towards orientation-independent performance of membraneless microfluidic fuel cell: Understanding the gravity effects. <i>Applied Energy</i> , 2012 , 90, 80-86	10.7	40	
126	Interface Modulation of MoS /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2020 , 16, e2002212	11	39	
125	A review of non-precious metal single atom confined nanomaterials in different structural dimensions (1DBD) as highly active oxygen redox reaction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2222-2245	13	39	
124	Nitrogen-doped graphene derived from ionic liquid as metal-free catalyst for oxygen reduction reaction and its mechanisms. <i>Applied Energy</i> , 2018 , 225, 513-521	10.7	39	
123	Electrochemical modeling of ammonia-fed solid oxide fuel cells based on proton conducting electrolyte. <i>Journal of Power Sources</i> , 2008 , 183, 687-692	8.9	38	
122	A free-standing 3D nano-composite photo-electrode Ag/ZnO nanorods arrays on Ni foam effectively degrade berberine. <i>Chemical Engineering Journal</i> , 2019 , 373, 179-191	14.7	36	
121	Theoretical and experimental studies on laser transformation hardening of steel by customized beam. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4600-4606	4.9	36	
120	Effect of composites based nickel foam anode in microbial fuel cell using Acetobacter aceti and Gluconobacter roseus as a biocatalysts. <i>Bioresource Technology</i> , 2016 , 217, 113-20	11	36	
119	Vanadium microfluidic fuel cell with novel multi-layer flow-through porous electrodes: Model, simulations and experiments. <i>Applied Energy</i> , 2016 , 177, 729-739	10.7	35	
118	Facile synthesis of TiO2 hollow spheres composed of high percentage of reactive facets for enhanced photocatalytic activity. <i>CrystEngComm</i> , 2014 , 16, 10046-10055	3.3	35	
117	An improved electrochemical model for the NH3 fed proton conducting solid oxide fuel cells at intermediate temperatures. <i>Journal of Power Sources</i> , 2008 , 185, 233-240	8.9	35	
116	Kinetic-Oriented Construction of MoS2 Synergistic Interface to Boost pH-Universal Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020 , 30, 1908520	15.6	35	
115	Synthesis and Characterization of Tin Titanate Nanotubes: Precursors for Nanoparticulate Sn-Doped TiO2 Anodes with Synergistically Improved Electrochemical Performance. <i>ChemElectroChem</i> , 2014 , 1, 1563-1569	4.3	34	

114	High photocatalytic activity of immobilized TiO2 nanorods on carbonized cotton fibers. <i>Journal of Hazardous Materials</i> , 2013 , 263 Pt 2, 659-69	12.8	34
113	Effective use of venetian blind in Trombe wall for solar space conditioning control. <i>Applied Energy</i> , 2019 , 250, 452-460	10.7	33
112	Synthesis of SnSb-embedded carbon-silica fibers via electrospinning: Effect of TEOS on structural evolutions and electrochemical properties. <i>Materials Today Energy</i> , 2016 , 1-2, 24-32	7	33
111	A high-capacity dual-electrolyte aluminum/air electrochemical cell. <i>RSC Advances</i> , 2014 , 4, 30857-30863	3.7	32
110	Laminar flow-based fuel cell working under critical conditions: The effect of parasitic current. <i>Applied Energy</i> , 2012 , 90, 87-93	10.7	32
109	Integrating chemical kinetics with CFD modeling for autothermal reforming of biogas. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9076-9086	6.7	32
108	Air-breathing membraneless laminar flow-based fuel cells: Do they breathe enough oxygen?. <i>Applied Energy</i> , 2013 , 104, 400-407	10.7	31
107	Synthesis and photocatalytic activity of boron and fluorine codoped TiO2 nanosheets with reactive facets. <i>Applied Energy</i> , 2013 , 112, 1190-1197	10.7	31
106	Hydrodynamic focusing in microfluidic membraneless fuel cells: Breaking the trade-off between fuel utilization and current density. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11075-11084	6.7	30
105	Atomically Dispersed Iron Metal Site in a Porphyrin-Based Metal-Organic Framework for Photocatalytic Nitrogen Fixation. <i>ACS Nano</i> , 2021 , 15, 9670-9678	16.7	30
104	Enabling high-concentrated fuel operation of fuel cells with microfluidic principles: A feasibility study. <i>Applied Energy</i> , 2013 , 112, 1131-1137	10.7	29
103	Photocatalytic decolorization of anthraquinonic dye by TiO2 thin film under UVA and visible-light irradiation. <i>Chemical Engineering Journal</i> , 2007 , 129, 153-159	14.7	29
102	Bimetallic Mollo nanoparticles anchored on nitrogen-doped carbon for enhanced electrochemical nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9091-9098	13	29
101	Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117898	21.8	28
100	Janus effect of O2 plasma modification on the electrocatalytic hydrogen evolution reaction of MoS2. <i>Journal of Catalysis</i> , 2018 , 361, 384-392	7.3	28
99	Atomic layer deposition of TiO shells on MoO nanobelts allowing enhanced lithium storage performance. <i>Chemical Communications</i> , 2018 , 54, 7782-7785	5.8	28
98	Highly efficient AgBr/BiVO4 photoanode for photocatalytic fuel cell. <i>Materials Letters</i> , 2019 , 236, 394-3	937 3	28
97	Partial modification of flow-through porous electrodes in microfluidic fuel cell. <i>Energy</i> , 2015 , 88, 563-57	' ‡.9	27

96	Electricity generating & high efficiency advanced oxidation process including peroxymonosulfate activation in photocatalytic fuel cell. <i>Chemical Engineering Journal</i> , 2019 , 378, 122148	14.7	26
95	Corrosion behaviors of nanocrystalline and conventional polycrystalline copper. <i>Journal of Materials Science</i> , 2005 , 40, 1019-1022	4.3	26
94	A hybrid aluminum/hydrogen/air cell system. International Journal of Hydrogen Energy, 2013 , 38, 14801-	164 8 09	25
93	Solar photocatalytic asphalt for removal of vehicular NOx: A feasibility study. <i>Applied Energy</i> , 2018 , 225, 535-541	10.7	25
92	A computational study of bifunctional oxygen electrode in air-breathing reversible microfluidic fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9231-9241	6.7	24
91	Bubble-like Fe-encapsulated N,S-codoped carbon nanofibers as efficient bifunctional oxygen electrocatalysts for robust Zn-air batteries. <i>Nano Research</i> , 2020 , 13, 2175-2182	10	23
90	Optimal design of current collectors for microfluidic fuel cell with flow-through porous electrodes: Model and experiment. <i>Applied Energy</i> , 2017 , 206, 413-424	10.7	23
89	Energy and exergy analysis of microfluidic fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6526-6536	6.7	23
88	Development of clustering-based sensor fault detection and diagnosis strategy for chilled water system. <i>Energy and Buildings</i> , 2019 , 186, 17-36	7	22
87	Urban heat island and its effect on the cooling and heating demands in urban and suburban areas of Hong Kong. <i>Theoretical and Applied Climatology</i> , 2011 , 103, 441-450	3	22
86	Occupational exposure to volatile organic compounds and mitigation by push-pull local exhaust ventilation in printing plants. <i>Journal of Occupational Health</i> , 2005 , 47, 540-7	2.3	22
85	An overview of emissions trading and its prospects in Hong Kong. <i>Environmental Science and Policy</i> , 2009 , 12, 92-101	6.2	20
84	Phase-change heat transfer in laser transformation hardening by moving Gaussian rectangular heat source. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 3434-3441	3	20
83	Hydrothermal synthesis and electrochemical properties of tin titanate nanowires coupled with SnO2 nanoparticles for Li-ion batteries. <i>CrystEngComm</i> , 2014 , 16, 7529-7535	3.3	19
82	Chemical and transport behaviors in a microfluidic reformer with catalytic-support membrane for efficient hydrogen production and purification. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2614	1-2622	19
81	Micro-Scale Modeling of a Functionally Graded Ni-YSZ Anode. <i>Chemical Engineering and Technology</i> , 2007 , 30, 587-592	2	19
80	Cobalt free SrFe 0.95 Nb 0.05 O 3leathode material for proton-conducting solid oxide fuel cells with BaZr 0.1 Ce 0.7 Y 0.2 O 3lelectrolyte. <i>Materials Letters</i> , 2017 , 200, 75-78	3.3	18
79	NiFe-layered double hydroxide decorated BiVO4 photoanode based bi-functional solar-light driven dual-photoelectrode photocatalytic fuel cell. <i>Applied Energy</i> , 2019 , 255, 113770	10.7	18

78	Thermodynamic and Thermo-economic Analysis of Integrated Organic Rankine Cycle for Waste Heat Recovery from Vapor Compression Refrigeration Cycle. <i>Energy Procedia</i> , 2017 , 143, 192-198	2.3	18
77	Importance of pressure gradient in solid oxide fuel cell electrodes for modeling study. <i>Journal of Power Sources</i> , 2008 , 183, 668-673	8.9	18
76	Activation of peroxymonosulfate and recycled effluent filtration over cathode membrane CNFs-CoFe2O4/PVDF in a photocatalytic fuel cell for water pollution control. <i>Chemical Engineering Journal</i> , 2020 , 399, 125731	14.7	17
75	Theoretical GraetzDamkEler modeling of an air-breathing microfluidic fuel cell. <i>Journal of Power Sources</i> , 2013 , 231, 1-5	8.9	17
74	Modeling of Parasitic Hydrogen Evolution Effects in an Aluminum∆ir Cell Energy & En	4.1	17
73	Effect of refrigerant charge on the performance of air conditioning systems. <i>International Journal of Energy Research</i> , 2001 , 25, 741-750	4.5	17
72	Advanced/hybrid thermal energy storage technology: material, cycle, system and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 145, 111088	16.2	17
71	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11877-11885	13	16
70	Density-induced asymmetric pair of Dean vortices and its effects on mass transfer in a curved microchannel with two-layer laminar stream. <i>Chemical Engineering Journal</i> , 2011 , 171, 216-223	14.7	16
69	A novel and facile solvothermal-and-hydrothermal method for synthesis of uniform BiVO4 film with high photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2018 , 732, 593-602	5.7	14
68	Dimensionless parametric sensitivity analysis of microfluidic fuel cell with flow-through porous electrodes. <i>Electrochimica Acta</i> , 2016 , 187, 636-645	6.7	14
67	Fluid dynamics and heat transfer in cold water thawing. <i>Journal of Food Engineering</i> , 2007 , 78, 1221-122	76	13
66	A review on independent and integrated/coupled two-phase loop thermosyphons. <i>Applied Energy</i> , 2020 , 280, 115885	10.7	13
65	Plasma-grafted anion-exchange membrane preparation and process analysis. <i>Electrochimica Acta</i> , 2016 , 204, 218-226	6.7	13
64	Understanding the performance of optofluidic fuel cells: Experimental and theoretical analyses. <i>Chemical Engineering Journal</i> , 2016 , 283, 1455-1464	14.7	12
63	NiFe layered double hydroxide/BiVO4 photoanode based dual-photoelectrode photocatalytic fuel cell for enhancing degradation of azo dye and electricity generation. <i>Energy Procedia</i> , 2019 , 158, 2188-2	19 3	12
62	The influence of sintering conditions on the dielectric and piezoelectric properties of PbZrTiOPbMgNbO ceramic tubes. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 465-469	5.7	12
61	CFD Analysis of the Performance of a Local Exhaust Ventilation System in a Hospital Ward. <i>Indoor and Built Environment</i> , 2006 , 15, 257-271	1.8	12

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60	Theoretical study of heat transfer with moving phase-change interface in thawing of frozen food. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 477-482	3	12
59	Advancement of Bismuth-Based Materials for Electrocatalytic and Photo(electro)catalytic Ammonia Synthesis. <i>Advanced Functional Materials</i> ,2106713	15.6	12
58	Screening of novel water/ionic liquid working fluids for absorption thermal energy storage in cooling systems. <i>International Journal of Energy Research</i> , 2020 , 44, 9367-9381	4.5	12
57	Chemical vapor deposition growth of carbon nanotube confined nickel sulfides from porous electrospun carbon nanofibers and their superior lithium storage properties. <i>Nanoscale Advances</i> , 2019 , 1, 656-663	5.1	11
56	Facile synthesis and photocatalytic disinfection of boron self-doped TiO2 nanosheets. <i>Materials Letters</i> , 2014 , 115, 57-59	3.3	11
55	A novel hybrid-energy heat pump with refrigerant injection: Performance characterization and injection optimization. <i>Energy Conversion and Management</i> , 2020 , 208, 112584	10.6	10
54	A Theoretical Study on Photocatalytic Fuel Cell. <i>Energy Procedia</i> , 2014 , 61, 246-249	2.3	10
53	Phase Change in a Cylinder and a Cylindrical Shell Heated With an Axisymmetric Front Moving in the Axial Direction. <i>Journal of Heat Transfer</i> , 2001 , 123, 476-485	1.8	10
52	Thermo-economic and environmental analysis of integrating renewable energy sources in a district heating and cooling network. <i>Energy Efficiency</i> , 2020 , 13, 79-100	3	10
51	Mo2C embedded on nitrogen-doped carbon toward electrocatalytic nitrogen reduction to ammonia under ambient conditions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 13011-13019	6.7	10
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50	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768	10.7	9
50 49	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal		9
	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768 Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid.	10.7	
49	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768 Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. <i>Energy Procedia</i> , 2017 , 142, 1319-1326 Parallel-plate solar photocatalytic reactor for air purification: Semi-empirical correlation, modeling,	10.7	9
49	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768 Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. <i>Energy Procedia</i> , 2017 , 142, 1319-1326 Parallel-plate solar photocatalytic reactor for air purification: Semi-empirical correlation, modeling, and optimization. <i>Solar Energy</i> , 2006 , 80, 949-955	10.7 2.3 6.8	9
49 48 47	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768 Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. <i>Energy Procedia</i> , 2017 , 142, 1319-1326 Parallel-plate solar photocatalytic reactor for air purification: Semi-empirical correlation, modeling, and optimization. <i>Solar Energy</i> , 2006 , 80, 949-955 Photocatalytic fuel cell IA review. <i>Chemical Engineering Journal</i> , 2022 , 428, 131074 Microwave-Hydrothermal Synthesis of Hierarchical Sb2WO6 Nanostructures as a New Anode	10.7 2.3 6.8	9 9 9 8
49 48 47 46	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768 Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. <i>Energy Procedia</i> , 2017 , 142, 1319-1326 Parallel-plate solar photocatalytic reactor for air purification: Semi-empirical correlation, modeling, and optimization. <i>Solar Energy</i> , 2006 , 80, 949-955 Photocatalytic fuel cell IA review. <i>Chemical Engineering Journal</i> , 2022 , 428, 131074 Microwave-Hydrothermal Synthesis of Hierarchical Sb2WO6 Nanostructures as a New Anode Material for Sodium Storage. <i>ChemistrySelect</i> , 2019 , 4, 1078-1083	10.7 2.3 6.8 14.7	9 9 9 8

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