

Michael Kwok Hi Leung

List of Publications by Year in descending order

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185
papers

19,715
citations

26610

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11047

137
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all docs

190
docs citations

190
times ranked

22316
citing authors

#	ARTICLE	IF	CITATIONS
1	A review and recent developments in photocatalytic water-splitting using TiO ₂ for hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 401-425.	8.2	3,632
2	A review on biodiesel production using catalyzed transesterification. <i>Applied Energy</i> , 2010, 87, 1083-1095.	5.1	1,935
3	A review on reforming bio-ethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3238-3247.	3.8	1,061
4	An overview of hydrogen production from biomass. <i>Fuel Processing Technology</i> , 2006, 87, 461-472.	3.7	1,032
5	A droplet-based electricity generator with high instantaneous power density. <i>Nature</i> , 2020, 578, 392-396.	13.7	871
6	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.	6.6	680
7	Technological development of hydrogen production by solid oxide electrolyzer cell (SOEC). <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2337-2354.	3.8	576
8	A review on hydrogen production using aluminum and aluminum alloys. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 845-853.	8.2	443
9	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.	4.4	424
10	Hydrogen Production over Titania-Based Photocatalysts. <i>ChemSusChem</i> , 2010, 3, 681-694.	3.6	404
11	Nanohybridization of MoS ₂ with Layered Double Hydroxides Efficiently Synergizes the Hydrogen Evolution in Alkaline Media. <i>Joule</i> , 2017, 1, 383-393.	11.7	386
12	Parametric study of solid oxide fuel cell performance. <i>Energy Conversion and Management</i> , 2007, 48, 1525-1535.	4.4	300
13	Engineering stepped edge surface structures of MoS ₂ sheet stacks to accelerate the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2017, 10, 593-603.	15.6	284
14	A review of biomass-derived fuel processors for fuel cell systems. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1301-1313.	8.2	252
15	Potential of renewable hydrogen production for energy supply in Hong Kong. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1401-1412.	3.8	232
16	Can commonly-used fan-driven air cleaning technologies improve indoor air quality? A literature review. <i>Atmospheric Environment</i> , 2011, 45, 4329-4343.	1.9	213
17	Electrochemical Reduction of Carbon Dioxide to Formic Acid. <i>ChemElectroChem</i> , 2014, 1, 836-849.	1.7	206
18	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4192-4198.	7.2	183

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19	Parametric study of solid oxide steam electrolyzer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2305-2313.	3.8	174
20	An Efficient Bismuth Tungstate Visible-Light-Driven Photocatalyst for Breaking Down Nitric Oxide. <i>Environmental Science & Technology</i> , 2010, 44, 4276-4281.	4.6	170
21	Energy and exergy analysis of hydrogen production by solid oxide steam electrolyzer plant. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4648-4660.	3.8	164
22	A modeling study on concentration overpotentials of a reversible solid oxide fuel cell. <i>Journal of Power Sources</i> , 2006, 163, 460-466.	4.0	149
23	Interfacial electron transfer and bioelectrocatalysis of carbonized plant material as effective anode of microbial fuel cell. <i>Electrochimica Acta</i> , 2015, 157, 314-323.	2.6	134
24	Atomically Dispersed Iron Metal Site in a Porphyrin-Based Metal-Organic Framework for Photocatalytic Nitrogen Fixation. <i>ACS Nano</i> , 2021, 15, 9670-9678.	7.3	127
25	Micro-scale modelling of solid oxide fuel cells with micro-structurally graded electrodes. <i>Journal of Power Sources</i> , 2007, 168, 369-378.	4.0	125
26	Characteristics of air exchange in a street canyon with ground heating. <i>Atmospheric Environment</i> , 2006, 40, 6396-6409.	1.9	123
27	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.	3.0	120
28	SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. <i>National Science Review</i> , 2019, 6, 540-550.	4.6	110
29	Ammonia-fed solid oxide fuel cells for power generation-A review. <i>International Journal of Energy Research</i> , 2009, 33, 943-959.	2.2	101
30	Oxidizing solid Co into hollow Co_3O_4 within electrospun (carbon) nanofibers towards enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3024-3030.	5.2	98
31	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.	2.6	92
32	Hollow Carbon Fibers Derived from Natural Cotton as Effective Sorbents for Oil Spill Cleanup. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 18251-18261.	1.8	88
33	Solar photocatalytic fuel cell using CdS/TiO_2 photoanode and air-breathing cathode for wastewater treatment and simultaneous electricity production. <i>Chemical Engineering Journal</i> , 2014, 253, 174-182.	6.6	88
34	An Electrochemical Model of a Solid Oxide Steam Electrolyzer for Hydrogen Production. <i>Chemical Engineering and Technology</i> , 2006, 29, 636-642.	0.9	85
35	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.	4.0	84
36	Facile preparation of PdNi/rGO and its electrocatalytic performance towards formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3894.	5.2	84

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37	Theoretical modeling of TiO ₂ /TCO interfacial effect on dye-sensitized solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2000-2009.	3.0	80
38	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.	8.2	77
39	Recycling LiCoO ₂ with methanesulfonic acid for regeneration of lithium-ion battery electrode materials. <i>Journal of Power Sources</i> , 2019, 436, 226828.	4.0	75
40	The self-assembly synthesis of tungsten oxide quantum dots with enhanced optical properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3280-3285.	2.7	74
41	Solar photocatalytic degradation of gaseous formaldehyde by sol-gel TiO ₂ thin film for enhancement of indoor air quality. <i>Solar Energy</i> , 2004, 77, 129-135.	2.9	72
42	Mathematical Modelling of Proton-Conducting Solid Oxide Fuel Cells and Comparison with Oxygen-Ion-Conducting Counterpart. <i>Fuel Cells</i> , 2007, 7, 269-278.	1.5	72
43	Mathematical modeling of ammonia-fed solid oxide fuel cells with different electrolytes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5765-5772.	3.8	72
44	Electrochemical modeling and parametric study of methane fed solid oxide fuel cells. <i>Energy Conversion and Management</i> , 2009, 50, 268-278.	4.4	72
45	Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2020, 16, e2002212.	5.2	68
46	Advanced/hybrid thermal energy storage technology: material, cycle, system and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111088.	8.2	68
47	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.	4.0	67
48	Electrochemical modeling of hydrogen production by proton-conducting solid oxide steam electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4040-4047.	3.8	62
49	Bimetallic Mo-Co nanoparticles anchored on nitrogen-doped carbon for enhanced electrochemical nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9091-9098.	5.2	62
50	In situ deposition of Ag ₂ S hybrid nanoparticles onto TiO ₂ nanotube arrays towards fabrication of photoelectrodes with high visible light photoelectrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 676-680.	1.3	61
51	Visible-light-assisted photocatalytic degradation of gaseous formaldehyde by parallel-plate reactor coated with Cr ion-implanted TiO ₂ thin film. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 54-61.	3.0	59
52	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011, 175, 310-315.	2.2	59
53	A review of non-precious metal single atom confined nanomaterials in different structural dimensions (1D-3D) as highly active oxygen redox reaction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2222-2245.	5.2	59
54	Kinetic-Oriented Construction of MoS ₂ Synergistic Interface to Boost pH-Universal Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 1908520.	7.8	59

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55	Energy analysis of hydrogen and electricity production from aluminum-based processes. Applied Energy, 2012, 90, 100-105.	5.1	58
56	Theoretical modelling of the electrode thickness effect on maximum power point of dye-sensitized solar cell. Canadian Journal of Chemical Engineering, 2008, 86, 35-42.	0.9	57
57	Facile Synthesis of Nitrogen and Sulfur Codoped Carbon from Ionic Liquid as Metal-Free Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 7214-7221.	4.0	57
58	A free-standing 3D nano-composite photo-electrode Ag/ZnO nanorods arrays on Ni foam effectively degrade berberine. Chemical Engineering Journal, 2019, 373, 179-191.	6.6	57
59	Effective use of venetian blind in Trombe wall for solar space conditioning control. Applied Energy, 2019, 250, 452-460.	5.1	57
60	Photocatalytic fuel cell – A review. Chemical Engineering Journal, 2022, 428, 131074.	6.6	57
61	Development and characteristics of a membraneless microfluidic fuel cell array. Electrochimica Acta, 2014, 135, 467-477.	2.6	55
62	Theoretical analysis of reversible solid oxide fuel cell based on proton-conducting electrolyte. Journal of Power Sources, 2008, 177, 369-375.	4.0	54
63	Recent Development of Plasmonic Resonance-Based Photocatalysis and Photovoltaics for Solar Utilization. Molecules, 2016, 21, 180.	1.7	54
64	Chaotic flow-based fuel cell built on counter-flow microfluidic network: Predicting the over-limiting current behavior. Journal of Power Sources, 2011, 196, 9391-9397.	4.0	53
65	Controlling charge transfer in quantum-size titania for photocatalytic applications. Applied Catalysis B: Environmental, 2017, 215, 85-92.	10.8	52
66	Nitrogen-doped graphene derived from ionic liquid as metal-free catalyst for oxygen reduction reaction and its mechanisms. Applied Energy, 2018, 225, 513-521.	5.1	52
67	Ultrafine single-crystal TiO ₂ nanocubes with mesoporous structure, high activity and durability in visible light driven photocatalysis. Nanoscale, 2014, 6, 897-902.	2.8	51
68	Towards orientation-independent performance of membraneless microfluidic fuel cell: Understanding the gravity effects. Applied Energy, 2012, 90, 80-86.	5.1	48
69	Electrochemical modeling of ammonia-fed solid oxide fuel cells based on proton conducting electrolyte. Journal of Power Sources, 2008, 183, 687-692.	4.0	47
70	Vanadium microfluidic fuel cell with novel multi-layer flow-through porous electrodes: Model, simulations and experiments. Applied Energy, 2016, 177, 729-739.	5.1	47
71	A review on independent and integrated/coupled two-phase loop thermosyphons. Applied Energy, 2020, 280, 115885.	5.1	46
72	Control and management of hospital indoor air quality. Medical Science Monitor, 2006, 12, SR17-23.	0.5	46

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73	Atomic layer deposition of TiO ₂ shells on MoO ₃ nanobelts allowing enhanced lithium storage performance. <i>Chemical Communications</i> , 2018, 54, 7782-7785.	2.2	45
74	A high-capacity dual-electrolyte aluminum/air electrochemical cell. <i>RSC Advances</i> , 2014, 4, 30857-30863.	1.7	44
75	Advancement of Bismuth-Based Materials for Electrochemical and Photo(electro)catalytic Ammonia Synthesis. <i>Advanced Functional Materials</i> , 2022, 32, 2106713.	7.8	44
76	Effect of composites based nickel foam anode in microbial fuel cell using <i>Acetobacter acetii</i> and <i>Gluconobacter roseus</i> as biocatalysts. <i>Bioresource Technology</i> , 2016, 217, 113-120.	4.8	43
77	Solar photocatalytic asphalt for removal of vehicular NO _x : A feasibility study. <i>Applied Energy</i> , 2018, 225, 535-541.	5.1	43
78	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.	10.8	42
79	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.	2.5	41
80	An improved electrochemical model for the NH ₃ fed proton conducting solid oxide fuel cells at intermediate temperatures. <i>Journal of Power Sources</i> , 2008, 185, 233-240.	4.0	41
81	Air-breathing membraneless laminar flow-based fuel cells: Do they breathe enough oxygen?. <i>Applied Energy</i> , 2013, 104, 400-407.	5.1	41
82	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.	5.8	41
83	Janus effect of O ₂ plasma modification on the electrocatalytic hydrogen evolution reaction of MoS ₂ . <i>Journal of Catalysis</i> , 2018, 361, 384-392.	3.1	40
84	Electricity generating & high efficiency advanced oxidation process including peroxydisulfate activation in photocatalytic fuel cell. <i>Chemical Engineering Journal</i> , 2019, 378, 122148.	6.6	40
85	Enabling high-concentrated fuel operation of fuel cells with microfluidic principles: A feasibility study. <i>Applied Energy</i> , 2013, 112, 1131-1137.	5.1	39
86	Synthesis and Characterization of Tin Titanate Nanotubes: Precursors for Nanoparticulate Sn-Doped TiO ₂ Anodes with Synergistically Improved Electrochemical Performance. <i>ChemElectroChem</i> , 2014, 1, 1563-1569.	1.7	39
87	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.	2.5	39
88	Highly efficient AgBr/BiVO ₄ photoanode for photocatalytic fuel cell. <i>Materials Letters</i> , 2019, 236, 394-397.	1.3	39
89	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.	3.8	38
90	Laminar flow-based fuel cell working under critical conditions: The effect of parasitic current. <i>Applied Energy</i> , 2012, 90, 87-93.	5.1	38

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91	High photocatalytic activity of immobilized TiO ₂ nanorods on carbonized cotton fibers. Journal of Hazardous Materials, 2013, 263, 659-669.	6.5	38
92	Development of clustering-based sensor fault detection and diagnosis strategy for chilled water system. Energy and Buildings, 2019, 186, 17-36.	3.1	38
93	Synthesis and photocatalytic activity of boron and fluorine codoped TiO ₂ nanosheets with reactive facets. Applied Energy, 2013, 112, 1190-1197.	5.1	36
94	NiFe-layered double hydroxide decorated BiVO ₄ photoanode based bi-functional solar-light driven dual-photoelectrode photocatalytic fuel cell. Applied Energy, 2019, 255, 113770.	5.1	36
95	Integrating chemical kinetics with CFD modeling for autothermal reforming of biogas. International Journal of Hydrogen Energy, 2009, 34, 9076-9086.	3.8	35
96	Facile synthesis of TiO ₂ hollow spheres composed of high percentage of reactive facets for enhanced photocatalytic activity. CrystEngComm, 2014, 16, 10046-10055.	1.3	35
97	Photocatalytic decolorization of anthraquinonic dye by TiO ₂ thin film under UVA and visible-light irradiation. Chemical Engineering Journal, 2007, 129, 153-159.	6.6	34
98	A hybrid aluminum/hydrogen/air cell system. International Journal of Hydrogen Energy, 2013, 38, 14801-14809.	3.8	34
99	Partial modification of flow-through porous electrodes in microfluidic fuel cell. Energy, 2015, 88, 563-571.	4.5	34
100	Optimal design of current collectors for microfluidic fuel cell with flow-through porous electrodes: Model and experiment. Applied Energy, 2017, 206, 413-424.	5.1	32
101	Thermodynamic and Thermo-economic Analysis of Integrated Organic Rankine Cycle for Waste Heat Recovery from Vapor Compression Refrigeration Cycle. Energy Procedia, 2017, 143, 192-198.	1.8	32
102	Activation of peroxymonosulfate and recycled effluent filtration over cathode membrane CNFs-CoFe ₂ O ₄ /PVDF in a photocatalytic fuel cell for water pollution control. Chemical Engineering Journal, 2020, 399, 125731.	6.6	32
103	Energy and exergy analysis of microfluidic fuel cell. International Journal of Hydrogen Energy, 2013, 38, 6526-6536.	3.8	31
104	Occupational Exposure to Volatile Organic Compounds and Mitigation by Push&Pull Local Exhaust Ventilation in Printing Plants. Journal of Occupational Health, 2005, 47, 540-547.	1.0	29
105	Mo ₂ C embedded on nitrogen-doped carbon toward electrocatalytic nitrogen reduction to ammonia under ambient conditions. International Journal of Hydrogen Energy, 2021, 46, 13011-13019.	3.8	28
106	Corrosion behaviors of nanocrystalline and conventional polycrystalline copper. Journal of Materials Science, 2005, 40, 1019-1022.	1.7	27
107	Urban heat island and its effect on the cooling and heating demands in urban and suburban areas of Hong Kong. Theoretical and Applied Climatology, 2011, 103, 441-450.	1.3	27
108	A computational study of bifunctional oxygen electrode in air-breathing reversible microfluidic fuel cells. International Journal of Hydrogen Energy, 2011, 36, 9231-9241.	3.8	27

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109	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.	2.2	26
110	Micro-Scale Modeling of a Functionally Graded Ni-YSZ Anode. <i>Chemical Engineering and Technology</i> , 2007, 30, 587-592.	0.9	25
111	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.	1.5	24
112	An overview of emissions trading and its prospects in Hong Kong. <i>Environmental Science and Policy</i> , 2009, 12, 92-101.	2.4	24
113	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020, 264, 114768.	5.1	23
114	Electrochemical synthesis of ammonia from nitrogen catalyzed by CoMoO ₄ nanorods under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5060-5066.	5.2	23
115	Effect of refrigerant charge on the performance of air conditioning systems. <i>International Journal of Energy Research</i> , 2001, 25, 741-750.	2.2	22
116	Theoretical Graetz-Damköhler modeling of an air-breathing microfluidic fuel cell. <i>Journal of Power Sources</i> , 2013, 231, 1-5.	4.0	22
117	Modeling of Parasitic Hydrogen Evolution Effects in an Aluminum-Air Cell. <i>Energy & Fuels</i> , 2010, 24, 3748-3753.	2.5	21
118	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.	6.6	21
119	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.	1.3	20
120	Importance of pressure gradient in solid oxide fuel cell electrodes for modeling study. <i>Journal of Power Sources</i> , 2008, 183, 668-673.	4.0	20
121	Plasma-grafted anion-exchange membrane preparation and process analysis. <i>Electrochimica Acta</i> , 2016, 204, 218-226.	2.6	20
122	Dimensionless parametric sensitivity analysis of microfluidic fuel cell with flow-through porous electrodes. <i>Electrochimica Acta</i> , 2016, 187, 636-645.	2.6	20
123	Cobalt free SrFe _{0.95} Nb _{0.05} O ₃ cathode material for proton-conducting solid oxide fuel cells with BaZr _{0.1} Ce _{0.7} Y _{0.2} O ₃ electrolyte. <i>Materials Letters</i> , 2017, 200, 75-78.	1.3	20
124	Policy mixes and the policy learning process of energy transitions: Insights from the feed-in tariff policy and urban community solar in Hong Kong. <i>Energy Policy</i> , 2021, 157, 112214.	4.2	20
125	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, 2614-2622.	3.8	19
126	Hydrothermal synthesis and electrochemical properties of tin titanate nanowires coupled with SnO ₂ nanoparticles for Li-ion batteries. <i>CrystEngComm</i> , 2014, 16, 7529-7535.	1.3	19

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127	Comparative dynamic performance of hybrid absorption thermal batteries using H ₂ O/1,3-dimethylimidazolium dimethylphosphate. <i>Energy Conversion and Management</i> , 2021, 228, 113690.	4.4	19
128	Advanced Solar Photocatalytic Asphalt for Removal of Vehicular NO _x . <i>Energy Procedia</i> , 2017, 143, 811-816.	1.8	18
129	A novel and facile solvothermal-and-hydrothermal method for synthesis of uniform BiVO ₄ film with high photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2018, 732, 593-602.	2.8	18
130	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11877-11885.	5.2	18
131	Understanding the performance of optofluidic fuel cells: Experimental and theoretical analyses. <i>Chemical Engineering Journal</i> , 2016, 283, 1455-1464.	6.6	17
132	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.	2.2	17
133	Experimental study on the temperature management behaviours of a controllable loop thermosyphon. <i>Energy Conversion and Management</i> , 2019, 195, 436-446.	4.4	17
134	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.	1.3	17
135	Modulated FeCo nanoparticle in situ growth on the carbon matrix for high-performance oxygen catalysts. <i>Materials Today Energy</i> , 2021, 19, 100610.	2.5	17
136	NiFe layered double hydroxide/BiVO ₄ photoanode based dual-photoelectrode photocatalytic fuel cell for enhancing degradation of azo dye and electricity generation. <i>Energy Procedia</i> , 2019, 158, 2188-2195.	1.8	16
137	Recent developments of titanium dioxide materials for aquatic antifouling application. <i>Journal of Marine Science and Technology</i> , 2021, 26, 301-321.	1.3	16
138	Fluid dynamics and heat transfer in cold water thawing. <i>Journal of Food Engineering</i> , 2007, 78, 1221-1227.	2.7	15
139	A novel hybrid-energy heat pump with refrigerant injection: Performance characterization and injection optimization. <i>Energy Conversion and Management</i> , 2020, 208, 112584.	4.4	15
140	Valence Engineering of Polyvalent Cobalt Encapsulated in a Carbon Nanofiber as an Efficient Trifunctional Electrocatalyst for the Zn-Air Battery and Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4399-4408.	4.0	15
141	The influence of sintering conditions on the dielectric and piezoelectric properties of PbZrTiO ₃ -PbMgNbO ₃ ceramic tubes. <i>Journal of Alloys and Compounds</i> , 2009, 470, 465-469.	2.8	13
142	A Theoretical Study on Photocatalytic Fuel Cell. <i>Energy Procedia</i> , 2014, 61, 246-249.	1.8	13
143	Facile synthesis and photocatalytic disinfection of boron self-doped TiO ₂ nanosheets. <i>Materials Letters</i> , 2014, 115, 57-59.	1.3	13
144	Thermal behaviour of Trombe wall with venetian blind in summer and transition seasons. <i>Energy Procedia</i> , 2019, 158, 1059-1064.	1.8	13

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145	Micro/nanostructured MnCo ₂ O _{4.5} anodes with high reversible capacity and excellent rate capability for next generation lithium-ion batteries. <i>Applied Energy</i> , 2019, 252, 113452.	5.1	13
146	Transient and seasonal performance evaluation of a novel flexible heat pump for solar cooling. <i>Energy Conversion and Management</i> , 2020, 223, 113269.	4.4	13
147	Trielectrolyte aluminum-air cell with high stability and voltage beyond 2.2V. <i>Materials Today Physics</i> , 2020, 14, 100242.	2.9	13
148	Dual-electrolyte aluminum/air microfluidic fuel cell with electrolyte-recirculation. <i>Electrochimica Acta</i> , 2021, 388, 138584.	2.6	13
149	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.	1.3	12
150	La _{0.8} Sr _{0.2} MnO ₃ based perovskite with A-site deficiencies as high performance bifunctional electrocatalyst for oxygen reduction and evolution reaction in alkaline. <i>Energy Procedia</i> , 2019, 158, 5804-5810.	1.8	12
151	Microwave-Hydrothermal Synthesis of Hierarchical Sb ₂ WO ₆ Nanostructures as a New Anode Material for Sodium Storage. <i>ChemistrySelect</i> , 2019, 4, 1078-1083.	0.7	12
152	Coalescence-Induced Jumping Droplets on Nanostructured Biphilic Surfaces with Contact Electrification Effects. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11470-11479.	4.0	12
153	On the rational development of advanced thermochemical thermal batteries for short-term and long-term energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112557.	8.2	12
154	Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. <i>Energy Procedia</i> , 2017, 142, 1319-1326.	1.8	11
155	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.	1.2	10
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