

Dennis Yc Leung

List of Publications by Year in descending order

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292
papers

31,557
citations

7087

78
h-index

4641

170
g-index

297
all docs

297
docs citations

297
times ranked

31511
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	An overview of current status of carbon dioxide capture and storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 426-443.	8.2	2,253
3	A review on biodiesel production using catalyzed transesterification. <i>Applied Energy</i> , 2010, 87, 1083-1095.	5.1	1,935
4	A review on the generation, determination and mitigation of Urban Heat Island. <i>Journal of Environmental Sciences</i> , 2008, 20, 120-128.	3.2	1,195
5	A review on reforming bio-ethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3238-3247.	3.8	1,061
6	Evidence of Airborne Transmission of the Severe Acute Respiratory Syndrome Virus. <i>New England Journal of Medicine</i> , 2004, 350, 1731-1739.	13.9	1,045
7	An overview of hydrogen production from biomass. <i>Fuel Processing Technology</i> , 2006, 87, 461-472.	3.7	1,032
8	Transesterification of neat and used frying oil: Optimization for biodiesel production. <i>Fuel Processing Technology</i> , 2006, 87, 883-890.	3.7	804
9	Low temperature catalytic oxidation of volatile organic compounds: a review. <i>Catalysis Science and Technology</i> , 2015, 5, 2649-2669.	2.1	616
10	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
11	Wind energy development and its environmental impact: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1031-1039.	8.2	488
12	A review on hydrogen production using aluminum and aluminum alloys. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 845-853.	8.2	443
13	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
14	Hydrogen Production over Titania-Based Photocatalysts. <i>ChemSusChem</i> , 2010, 3, 681-694.	3.6	404
15	A novel Z-scheme Ag ₃ VO ₄ /BiVO ₄ heterojunction photocatalyst: Study on the excellent photocatalytic performance and photocatalytic mechanism. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 448-458.	10.8	322
16	Photocatalytic reforming of biomass: A systematic study of hydrogen evolution from glucose solution. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6484-6491.	3.8	301
17	Parametric study of solid oxide fuel cell performance. <i>Energy Conversion and Management</i> , 2007, 48, 1525-1535.	4.4	300
18	Complete Oxidation of Formaldehyde at Room Temperature Using TiO ₂ Supported Metallic Pd Nanoparticles. <i>ACS Catalysis</i> , 2011, 1, 348-354.	5.5	276

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19	Optimization of biodiesel production from camelina oil using orthogonal experiment. <i>Applied Energy</i> , 2011, 88, 3615-3624.	5.1	264
20	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
21	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
22	A review on unitized regenerative fuel cell technologies, part-A: Unitized regenerative proton exchange membrane fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 961-977.	8.2	228
23	Outdoor-indoor air pollution in urban environment: challenges and opportunity. <i>Frontiers in Environmental Science</i> , 2015, 2, .	1.5	221
24	Complete elimination of indoor formaldehyde over supported Pt catalysts with extremely low Pt content at ambient temperature. <i>Journal of Catalysis</i> , 2011, 280, 60-67.	3.1	213
25	Titanium oxide based photocatalytic materials development and their role of in the air pollutants degradation: Overview and forecast. <i>Environment International</i> , 2019, 125, 200-228.	4.8	208
26	Electrochemical Reduction of Carbon Dioxide to Formic Acid. <i>ChemElectroChem</i> , 2014, 1, 836-849.	1.7	206
27	Degradation of biodiesel under different storage conditions. <i>Bioresource Technology</i> , 2006, 97, 250-256.	4.8	198
28	A review on the energy production, consumption, and prospect of renewable energy in China. <i>Renewable and Sustainable Energy Reviews</i> , 2003, 7, 453-468.	8.2	184
29	An investigation of urban heat island intensity (UHI) as an indicator of urban heating. <i>Atmospheric Research</i> , 2009, 94, 491-500.	1.8	181
30	Photocatalytic performance of tetragonal and cubic In_2S_3 for the water splitting under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 393-399.	10.8	175
31	A novel 3D plasmonic p-n heterojunction photocatalyst: Ag nanoparticles on flower-like p-Ag ₂ S/n-BiVO ₄ and its excellent photocatalytic reduction and oxidation activities. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 171-180.	10.8	175
32	Parametric study of solid oxide steam electrolyzer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2305-2313.	3.8	174
33	Byproducts and pathways of toluene destruction via plasma-catalysis. <i>Journal of Molecular Catalysis A</i> , 2011, 336, 87-93.	4.8	171
34	Efficient MnOx supported on coconut shell activated carbon for catalytic oxidation of indoor formaldehyde at room temperature. <i>Chemical Engineering Journal</i> , 2018, 334, 2050-2057.	6.6	170
35	Kinetic study of scrap tyre pyrolysis and combustion. <i>Journal of Analytical and Applied Pyrolysis</i> , 1998, 45, 153-169.	2.6	167
36	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

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37	Impact of building facades and ground heating on wind flow and pollutant transport in street canyons. <i>Atmospheric Environment</i> , 2007, 41, 9030-9049.	1.9	159
38	Effect of reduction treatment on structural properties of TiO ₂ supported Pt nanoparticles and their catalytic activity for formaldehyde oxidation. <i>Journal of Materials Chemistry</i> , 2011, 21, 9647.	6.7	157
39	A review on unitized regenerative fuel cell technologies, part B: Unitized regenerative alkaline fuel cell, solid oxide fuel cell, and microfluidic fuel cell. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 775-795.	8.2	156
40	Simultaneous removal of tetracycline and Cr(VI) by a novel three-dimensional AgI/BiVO ₄ p-n junction photocatalyst and insight into the photocatalytic mechanism. <i>Chemical Engineering Journal</i> , 2019, 369, 716-725.	6.6	153
41	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
42	Catalytic ozonation of VOCs at low temperature: A comprehensive review. <i>Journal of Hazardous Materials</i> , 2022, 422, 126847.	6.5	146
43	Effects of building aspect ratio and wind speed on air temperatures in urban-like street canyons. <i>Building and Environment</i> , 2010, 45, 176-188.	3.0	140
44	Enhanced Performance and Conversion Pathway for Catalytic Ozonation of Methyl Mercaptan on Single-Atom Ag Deposited Three-Dimensional Ordered Mesoporous MnO ₂ . <i>Environmental Science & Technology</i> , 2018, 52, 13399-13409.	4.6	134
45	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
46	Pyrolysis of tire powder: influence of operation variables on the composition and yields of gaseous product. <i>Fuel Processing Technology</i> , 2002, 79, 141-155.	3.7	124
47	Mesoporous TiO ₂ under VUV irradiation: Enhanced photocatalytic oxidation for VOCs degradation at room temperature. <i>Chemical Engineering Journal</i> , 2017, 327, 490-499.	6.6	124
48	Novel Z-scheme Ag-C ₃ N ₄ /SnS ₂ plasmonic heterojunction photocatalyst for degradation of tetracycline and H ₂ production. <i>Chemical Engineering Journal</i> , 2021, 405, 126555.	6.6	124
49	Characteristics of air exchange in a street canyon with ground heating. <i>Atmospheric Environment</i> , 2006, 40, 6396-6409.	1.9	123
50	Hydroxide ZnSn(OH) ₆ : A promising new photocatalyst for benzene degradation. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 67-72.	10.8	122
51	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
52	Numerical investigation of pollutant transport characteristics inside deep urban street canyons. <i>Atmospheric Environment</i> , 2009, 43, 2410-2418.	1.9	115
53	A low-cost and dendrite-free rechargeable aluminium-ion battery with superior performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17420-17425.	5.2	111
54	Study the photocatalytic mechanism of the novel Ag/p-Ag ₂ O/n-BiVO ₄ plasmonic photocatalyst for the simultaneous removal of BPA and chromium(VI). <i>Chemical Engineering Journal</i> , 2019, 361, 1352-1362.	6.6	110

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55	A review on the development and commercialization of biomass gasification technologies in China. <i>Renewable and Sustainable Energy Reviews</i> , 2004, 8, 565-580.	8.2	108
56	Mechanistic study on formaldehyde removal over Pd/TiO ₂ catalysts: Oxygen transfer and role of water vapor. <i>Chemical Engineering Journal</i> , 2013, 230, 73-79.	6.6	108
57	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
58	Highly dispersed and active supported Pt nanoparticles for gaseous formaldehyde oxidation: Influence of particle size. <i>Chemical Engineering Journal</i> , 2014, 252, 320-326.	6.6	100
59	An overview on biogas generation from anaerobic digestion of food waste. <i>International Journal of Green Energy</i> , 2016, 13, 119-131.	2.1	100
60	Graphene materials in green energy applications: Recent development and future perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109656.	8.2	100
61	Heterogeneous activation of peroxymonosulfate over monodispersed Co ₃ O ₄ /activated carbon for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , 2018, 341, 383-391.	6.6	99
62	Catalytic oxidation of benzene over Mn modified TiO ₂ /ZSM-5 under vacuum UV irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 870-878.	10.8	97
63	Cultivation of <i>Spirulina platensis</i> for biomass production and nutrient removal from synthetic human urine. <i>Applied Energy</i> , 2013, 102, 427-431.	5.1	96
64	UV/H ₂ O ₂ : An efficient aqueous advanced oxidation process for VOCs removal. <i>Chemical Engineering Journal</i> , 2017, 324, 44-50.	6.6	95
65	Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO ₂ under vacuum ultraviolet (VUV) irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 78-87.	10.8	95
66	Optimization of Exhaust Emissions of a Diesel Engine Fuelled with Biodiesel. <i>Energy & Fuels</i> , 2006, 20, 1015-1023.	2.5	93
67	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
68	Large-Eddy Simulation of Flow and Pollutant Dispersion in High-Aspect-Ratio Urban Street Canyons with Wall Model. <i>Boundary-Layer Meteorology</i> , 2008, 129, 249-268.	1.2	92
69	Efficient degradation of gaseous benzene by VUV photolysis combined with ozone-assisted catalytic oxidation: Performance and mechanism. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 62-68.	10.8	92
70	Intimately Contacted Ni ₂ P on CdS Nanorods for Highly Efficient Photocatalytic H ₂ Evolution: New Phosphidation Route and the Interfacial Separation Mechanism of Charge Carriers. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119443.	10.8	90
71	Large-Eddy Simulation of Flow and Pollutant Transport in Urban Street Canyons with Ground Heating. <i>Boundary-Layer Meteorology</i> , 2010, 137, 187-204.	1.2	88
72	Wet scrubber coupled with UV/PMS process for efficient removal of gaseous VOCs: Roles of sulfate and hydroxyl radicals. <i>Chemical Engineering Journal</i> , 2019, 356, 632-640.	6.6	86

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73	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
74	Physical Modeling of Flow Field inside Urban Street Canyons. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2058-2067.	0.6	85
75	Photoelectrocatalytic hydrogen generation and simultaneous degradation of organic pollutant via CdSe/TiO ₂ nanotube arrays. <i>Applied Surface Science</i> , 2016, 362, 490-497.	3.1	85
76	Large-Eddy Simulation of Flow and Pollutant Transport in Street Canyons of Different Building-Height-to-Street-Width Ratios. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 1410-1424.	1.7	84
77	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
78	On the correlation of air and pollutant exchange for street canyons in combined wind-buoyancy-driven flow. <i>Atmospheric Environment</i> , 2009, 43, 3682-3690.	1.9	82
79	g-C ₃ N ₄ photoanode for photoelectrocatalytic synergistic pollutant degradation and hydrogen evolution. <i>Applied Surface Science</i> , 2019, 467-468, 658-665.	3.1	82
80	Fluidized-bed gasification of waste tire powders. <i>Fuel Processing Technology</i> , 2003, 84, 175-196.	3.7	81
81	Ozone-catalytic oxidation of gaseous benzene over MnO ₂ /ZSM-5 at ambient temperature: Catalytic deactivation and its suppression. <i>Chemical Engineering Journal</i> , 2015, 264, 24-31.	6.6	79
82	Characteristics of the Synthesis of Methanol Using Biomass-Derived Syngas. <i>Energy & Fuels</i> , 2005, 19, 305-310.	2.5	78
83	Computational formulation for the evaluation of street canyon ventilation and pollutant removal performance. <i>Atmospheric Environment</i> , 2008, 42, 9041-9051.	1.9	76
84	A novel Z-scheme CeO ₂ /g-C ₃ N ₄ heterojunction photocatalyst for degradation of Bisphenol A and hydrogen evolution and insight of the photocatalysis mechanism. <i>Journal of Materials Science and Technology</i> , 2021, 85, 18-29.	5.6	75
85	Synergetic degradation of VOCs by vacuum ultraviolet photolysis and catalytic ozonation over Mn-xCe/ZSM-5. <i>Journal of Hazardous Materials</i> , 2019, 364, 770-779.	6.5	74
86	A novel Au/g-C ₃ N ₄ nanosheets/CeO ₂ hollow nanospheres plasmonic heterojunction photocatalysts for the photocatalytic reduction of hexavalent chromium and oxidation of oxytetracycline hydrochloride. <i>Chemical Engineering Journal</i> , 2021, 409, 128185.	6.6	74
87	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
88	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
89	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
90	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

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91	Enhanced degradation of gaseous benzene under vacuum ultraviolet (VUV) irradiation over TiO ₂ modified by transition metals. <i>Chemical Engineering Journal</i> , 2015, 259, 534-541.	6.6	72
92	Ultra-fine Pt nanoparticles on graphene aerogel as a porous electrode with high stability for microfluidic methanol fuel cell. <i>Journal of Power Sources</i> , 2017, 349, 75-83.	4.0	70
93	Effects of Urban Vegetation on Urban Air Quality. <i>Landscape Research</i> , 2011, 36, 173-188.	0.7	69
94	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
95	Impact of the geometry of divergent chimneys on the power output of a solar chimney power plant. <i>Energy</i> , 2017, 120, 1-11.	4.5	67
96	Graphene-carbon nanotube composite aerogel with Ru@Pt nanoparticle as a porous electrode for direct methanol microfluidic fuel cell. <i>Applied Energy</i> , 2018, 217, 258-265.	5.1	64
97	A high performance dual electrolyte microfluidic reactor for the utilization of CO ₂ . <i>Applied Energy</i> , 2017, 194, 549-559.	5.1	63
98	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
99	Enhanced photocatalytic degradation of methylene blue under vacuum ultraviolet irradiation. <i>Catalysis Today</i> , 2013, 201, 189-194.	2.2	61
100	Microfluidic fuel cells with different types of fuels: A prospective review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110806.	8.2	61
101	A mixed-pH dual-electrolyte microfluidic aluminum-air cell with high performance. <i>Applied Energy</i> , 2017, 185, 1303-1308.	5.1	60
102	Parametric study and optimization of a low-cost paper-based Al-air battery with corrosion inhibition ability. <i>Applied Energy</i> , 2019, 251, 113342.	5.1	60
103	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
104	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011, 175, 310-315.	2.2	59
105	Energy analysis of hydrogen and electricity production from aluminum-based processes. <i>Applied Energy</i> , 2012, 90, 100-105.	5.1	58
106	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.	0.9	57
107	In-situ synthesis of heterojunction TiO ₂ /MnO ₂ nanostructure with excellent performance in vacuum ultraviolet photocatalytic oxidation of toluene. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118034.	10.8	57
108	Over-expression of AtPAP2 in <i>Camelina sativa</i> leads to faster plant growth and higher seed yield. <i>Biotechnology for Biofuels</i> , 2012, 5, 19.	6.2	55

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109	Development and characteristics of a membraneless microfluidic fuel cell array. <i>Electrochimica Acta</i> , 2014, 135, 467-477.	2.6	55
110	Powering future body sensor network systems: A review of power sources. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112410.	5.3	55
111	Theoretical analysis of reversible solid oxide fuel cell based on proton-conducting electrolyte. <i>Journal of Power Sources</i> , 2008, 177, 369-375.	4.0	54
112	The efficacy of vacuum-ultraviolet light disinfection of some common environmental pathogens. <i>BMC Infectious Diseases</i> , 2020, 20, 127.	1.3	54
113	Photocatalytic reforming of glucose over La doped alkali tantalate photocatalysts for H ₂ production. <i>Catalysis Communications</i> , 2010, 12, 184-187.	1.6	53
114	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.	4.0	53
115	Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 681-688.	10.8	53
116	Catalytic oxidation of VOCs over Mn/TiO ₂ /activated carbon under 185 nm VUV irradiation. <i>Chemosphere</i> , 2018, 208, 550-558.	4.2	53
117	Innovative paper-based Al-air batteries as a low-cost and green energy technology for the miniwatt market. <i>Journal of Power Sources</i> , 2019, 414, 278-282.	4.0	53
118	Pollutant dispersion in urban street canopies. <i>Atmospheric Environment</i> , 2001, 35, 2033-2043.	1.9	52
119	Fluorinated TiO ₂ coupling with γ -MnO ₂ nanowires supported on different substrates for photocatalytic VOCs abatement under vacuum ultraviolet irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119388.	10.8	52
120	Z-scheme Au decorated carbon nitride/cobalt tetroxide plasmonic heterojunction photocatalyst for catalytic reduction of hexavalent chromium and oxidation of Bisphenol A. <i>Journal of Hazardous Materials</i> , 2021, 410, 124539.	6.5	52
121	A Review on Ozone Evolution and Its Relationship with Boundary Layer Characteristics in Urban Environments. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 13-36.	1.1	51
122	Efficient photocatalytic oxidation of gaseous toluene over F-doped TiO ₂ in a wet scrubbing process. <i>Chemical Engineering Journal</i> , 2020, 386, 121025.	6.6	51
123	Photocatalytic reduction of CO ₂ and degradation of Bisphenol-S by g-C ₃ N ₄ /Cu ₂ O@Cu S-scheme heterojunction: Study on the photocatalytic performance and mechanism insight. <i>Carbon</i> , 2022, 193, 272-284.	5.4	51
124	A Direct Ammonia Microfluidic Fuel Cell using NiCu Nanoparticles Supported on Carbon Nanotubes as an Electrocatalyst. <i>ChemSusChem</i> , 2018, 11, 2889-2897.	3.6	50
125	Enhanced photoelectrocatalytic hydrogen production via Bi/BiVO ₄ photoanode under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117954.	10.8	50
126	Counter-flow formic acid microfluidic fuel cell with high fuel utilization exceeding 90%. <i>Applied Energy</i> , 2015, 160, 930-936.	5.1	49

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127	A pH-differential dual-electrolyte microfluidic electrochemical cells for CO ₂ utilization. <i>Renewable Energy</i> , 2016, 95, 277-285.	4.3	49
128	Towards orientation-independent performance of membraneless microfluidic fuel cell: Understanding the gravity effects. <i>Applied Energy</i> , 2012, 90, 80-86.	5.1	48
129	Modeling of a microfluidic electrochemical cell for CO ₂ utilization and fuel production. <i>Applied Energy</i> , 2013, 102, 1057-1062.	5.1	48
130	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. <i>Journal of Hazardous Materials</i> , 2020, 399, 122967.	6.5	48
131	Electrochemical modeling of ammonia-fed solid oxide fuel cells based on proton conducting electrolyte. <i>Journal of Power Sources</i> , 2008, 183, 687-692.	4.0	47
132	Combining Al-air battery with paper-making industry, a novel type of flexible primary battery technology. <i>Electrochimica Acta</i> , 2019, 319, 947-957.	2.6	46
133	Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 689-696.	10.8	45
134	High-performance Aqueous Na ⁺ /Zn Hybrid Ion Battery Boosted by "Water-in-Gel" Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2008783.	7.8	45
135	Novel Ag/p-AgBr/n-BiVO ₄ Plasmonic Heterojunction Photocatalyst: Study on the Excellent Photocatalytic Performance and Photocatalytic Mechanism. <i>ACS Applied Energy Materials</i> , 2019, 2, 694-704.	2.5	44
136	On the prediction of air and pollutant exchange rates in street canyons of different aspect ratios using large-eddy simulation. <i>Atmospheric Environment</i> , 2005, , .	1.9	43
137	Street-level concentrations of nitrogen dioxide and suspended particulate matter in Hong Kong. <i>Atmospheric Environment</i> , 1998, 33, 1-11.	1.9	42
138	Vacuum ultraviolet (VUV)-based photocatalytic oxidation for toluene degradation over pure CeO ₂ . <i>Chemical Engineering Science</i> , 2019, 200, 203-213.	1.9	42
139	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
140	Improved land cover and emission factors for modeling biogenic volatile organic compounds emissions from Hong Kong. <i>Atmospheric Environment</i> , 2010, 44, 1456-1468.	1.9	41
141	Effects of building aspect ratio, diurnal heating scenario, and wind speed on reactive pollutant dispersion in urban street canyons. <i>Journal of Environmental Sciences</i> , 2012, 24, 2091-2103.	3.2	41
142	Air-breathing membraneless laminar flow-based fuel cells: Do they breathe enough oxygen?. <i>Applied Energy</i> , 2013, 104, 400-407.	5.1	41
143	A vapor feed methanol microfluidic fuel cell with high fuel and energy efficiency. <i>Applied Energy</i> , 2015, 147, 456-465.	5.1	41
144	A facile VUV/H ₂ O system without auxiliary substances for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , 2018, 334, 1422-1429.	6.6	41

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145	Synergistically catalytic oxidation of toluene over Mn modified g-C3N4/ZSM-4 under vacuum UV irradiation. <i>Journal of Hazardous Materials</i> , 2018, 349, 91-100.	6.5	41
146	A review on the removal of nitrogen oxides from polluted flow by bioreactors. <i>Environmental Reviews</i> , 2010, 18, 175-189.	2.1	40
147	A flexible paper-based hydrogen fuel cell for small power applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29680-29691.	3.8	40
148	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
149	Toluene degradation over Mn-TiO2/CeO2 composite catalyst under vacuum ultraviolet (VUV) irradiation. <i>Chemical Engineering Science</i> , 2019, 195, 985-994.	1.9	39
150	Construction of a novel Ag/Ag3PO4/MIL-68(In)-NH2 plasmonic heterojunction photocatalyst for high-efficiency photocatalysis. <i>Journal of Materials Science and Technology</i> , 2022, 101, 37-48.	5.6	39
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