

Dennis Yc 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.

284 papers	24,073 citations	67 h-index	150 g-index
297 ext. papers	27,847 ext. citations	8.2 avg, IF	7.5 L-index

#	Paper	IF	Citations
284	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	16.2	3189
283	An overview of current status of carbon dioxide capture and storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 426-443	16.2	1633
282	A review on biodiesel production using catalyzed transesterification. <i>Applied Energy</i> , 2010 , 87, 1083-1095	10.7	1626
281	A review on reforming bio-ethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3238-3247	6.7	941
280	A review on the generation, determination and mitigation of urban heat island. <i>Journal of Environmental Sciences</i> , 2008 , 20, 120-8	6.4	862
279	An overview of hydrogen production from biomass. <i>Fuel Processing Technology</i> , 2006 , 87, 461-472	7.2	858
278	Evidence of airborne transmission of the severe acute respiratory syndrome virus. <i>New England Journal of Medicine</i> , 2004 , 350, 1731-9	59.2	826
277	Transesterification of neat and used frying oil: Optimization for biodiesel production. <i>Fuel Processing Technology</i> , 2006 , 87, 883-890	7.2	661
276	Low temperature catalytic oxidation of volatile organic compounds: a review. <i>Catalysis Science and Technology</i> , 2015 , 5, 2649-2669	5.5	463
275	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
274	Wind energy development and its environmental impact: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1031-1039	16.2	368
273	A review on hydrogen production using aluminum and aluminum alloys. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 845-853	16.2	352
272	Hydrogen production over titania-based photocatalysts. <i>ChemSusChem</i> , 2010 , 3, 681-94	8.3	349
271	Photocatalytic reforming of biomass: A systematic study of hydrogen evolution from glucose solution. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6484-6491	6.7	264
270	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
269	Complete Oxidation of Formaldehyde at Room Temperature Using TiO ₂ Supported Metallic Pd Nanoparticles. <i>ACS Catalysis</i> , 2011 , 1, 348-354	13.1	233
268	Optimization of biodiesel production from camelina oil using orthogonal experiment. <i>Applied Energy</i> , 2011 , 88, 3615-3624	10.7	217

267	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
266	Parametric study of solid oxide fuel cell performance. <i>Energy Conversion and Management</i> , 2007 , 48, 1525-1535	10.6	209
265	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	21.8	200
264	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	7.3	197
263	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
262	Degradation of biodiesel under different storage conditions. <i>Bioresource Technology</i> , 2006 , 97, 250-6	11	162
261	Electrochemical Reduction of Carbon Dioxide to Formic Acid. <i>ChemElectroChem</i> , 2014 , 1, 836-849	4.3	151
260	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	16.2	151
259	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	16.2	144
258	Photocatalytic performance of tetragonal and cubic Fe_2S_3 for the water splitting under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 393-399	21.8	141
257	Kinetic study of scrap tyre pyrolysis and combustion. <i>Journal of Analytical and Applied Pyrolysis</i> , 1998 , 45, 153-169	6	141
256	Byproducts and pathways of toluene destruction via plasma-catalysis. <i>Journal of Molecular Catalysis A</i> , 2011 , 336, 87-93		140
255	An investigation of urban heat island intensity (UHII) as an indicator of urban heating. <i>Atmospheric Research</i> , 2009 , 94, 491-500	5.4	140
254	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		133
253	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	12.9	127
252	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	21.8	126
251	Parametric study of solid oxide steam electrolyzer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2305-2313	6.7	124
250	Impact of building facades and ground heating on wind flow and pollutant transport in street canyons. <i>Atmospheric Environment</i> , 2007 , 41, 9030-9049	5.3	123

249	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
248	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
247	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	14.7	119
246	Outdoor-indoor air pollution in urban environment: challenges and opportunity. <i>Frontiers in Environmental Science</i> , 2015 , 2,	4.8	116
245	Simultaneous removal of tetracycline and Cr(VI) by a novel three-dimensional AgI/BiVO4 p-n junction photocatalyst and insight into the photocatalytic mechanism. <i>Chemical Engineering Journal</i> , 2019 , 369, 716-725	14.7	115
244	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	6.5	110
243	Characteristics of air exchange in a street canyon with ground heating. <i>Atmospheric Environment</i> , 2006 , 40, 6396-6409	5.3	107
242	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	16.2	106
241	Hydroxide ZnSn(OH)6: A promising new photocatalyst for benzene degradation. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 67-72	21.8	105
240	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
239	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	7.2	103
238	Mesoporous TiO ₂ under VUV irradiation: Enhanced photocatalytic oxidation for VOCs degradation at room temperature. <i>Chemical Engineering Journal</i> , 2017 , 327, 490-499	14.7	102
237	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
236	Numerical investigation of pollutant transport characteristics inside deep urban street canyons. <i>Atmospheric Environment</i> , 2009 , 43, 2410-2418	5.3	89
235	A review on the development and commercialization of biomass gasification technologies in China. <i>Renewable and Sustainable Energy Reviews</i> , 2004 , 8, 565-580	16.2	89
234	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	14.7	85
233	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	3.4	80
232	Highly dispersed and active supported Pt nanoparticles for gaseous formaldehyde oxidation: Influence of particle size. <i>Chemical Engineering Journal</i> , 2014 , 252, 320-326	14.7	79

231	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	21.8	79
230	Optimization of Exhaust Emissions of a Diesel Engine Fuelled with Biodiesel. <i>Energy & Fuels</i> , 2006 , 20, 1015-1023	4.1	79
229	Ammonia-fed solid oxide fuel cells for power generation—A review. <i>International Journal of Energy Research</i> , 2009 , 33, 943-959	4.5	76
228	Enhanced Performance and Conversion Pathway for Catalytic Ozonation of Methyl Mercaptan on Single-Atom Ag Deposited Three-Dimensional Ordered Mesoporous MnO. <i>Environmental Science & Technology</i> , 2018 , 52, 13399-13409	10.3	76
227	Cultivation of <i>Spirulina platensis</i> for biomass production and nutrient removal from synthetic human urine. <i>Applied Energy</i> , 2013 , 102, 427-431	10.7	73
226	Physical Modeling of Flow Field inside Urban Street Canyons. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 2058-2067	2.7	73
225	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	21.8	72
224	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		72
223	An overview on biogas generation from anaerobic digestion of food waste. <i>International Journal of Green Energy</i> , 2016 , 13, 119-131	3	71
222	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
221	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	14.7	70
220	Photoelectrocatalytic hydrogen generation and simultaneous degradation of organic pollutant via CdSe/TiO ₂ nanotube arrays. <i>Applied Surface Science</i> , 2016 , 362, 490-497	6.7	69
219	Large-Eddy Simulation of Flow and Pollutant Transport in Urban Street Canyons with Ground Heating. <i>Boundary-Layer Meteorology</i> , 2010 , 137, 187-204	3.4	69
218	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
217	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
216	Characteristics of the Synthesis of Methanol Using Biomass-Derived Syngas. <i>Energy & Fuels</i> , 2005 , 19, 305-310	4.1	67
215	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	21.8	67
214	UV/H ₂ O ₂ : An efficient aqueous advanced oxidation process for VOCs removal. <i>Chemical Engineering Journal</i> , 2017 , 324, 44-50	14.7	66

213	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	5.3	66
212	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
211	Graphene materials in green energy applications: Recent development and future perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 120, 109656	16.2	66
210	Fluidized-bed gasification of waste tire powders. <i>Fuel Processing Technology</i> , 2003 , 84, 175-196	7.2	65
209	An Electrochemical Model of a Solid Oxide Steam Electrolyzer for Hydrogen Production. <i>Chemical Engineering and Technology</i> , 2006 , 29, 636-642	2	64
208	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	14.7	63
207	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	14.7	63
206	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	6.8	63
205	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	14.7	61
204	Computational formulation for the evaluation of street canyon ventilation and pollutant removal performance. <i>Atmospheric Environment</i> , 2008 , 42, 9041-9051	5.3	60
203	A low-cost and dendrite-free rechargeable aluminium-ion battery with superior performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17420-17425	13	59
202	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
201	g-C ₃ N ₄ photoanode for photoelectrocatalytic synergistic pollutant degradation and hydrogen evolution. <i>Applied Surface Science</i> , 2019 , 467-468, 658-665	6.7	59
200	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	14.7	57
199	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
198	Effects of Urban Vegetation on Urban Air Quality. <i>Landscape Research</i> , 2011 , 36, 173-188	1.4	53
197	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	8.9	52
196	Enhanced photocatalytic degradation of methylene blue under vacuum ultraviolet irradiation. <i>Catalysis Today</i> , 2013 , 201, 189-194	5.3	52

195	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	6.4	52
194	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011 , 175, 310-315	5.3	51
193	Development and characteristics of a membraneless microfluidic fuel cell array. <i>Electrochimica Acta</i> , 2014 , 135, 467-477	6.7	50
192	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	10.7	49
191	Impact of the geometry of divergent chimneys on the power output of a solar chimney power plant. <i>Energy</i> , 2017 , 120, 1-11	7.9	48
190	Photocatalytic reforming of glucose over La doped alkali tantalate photocatalysts for H ₂ production. <i>Catalysis Communications</i> , 2010 , 12, 184-187	3.2	48
189	Pollutant dispersion in urban street canopies. <i>Atmospheric Environment</i> , 2001 , 35, 2033-2043	5.3	48
188	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
187	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
186	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	7.8	46
185	Energy analysis of hydrogen and electricity production from aluminum-based processes. <i>Applied Energy</i> , 2012 , 90, 100-105	10.7	46
184	Theoretical analysis of reversible solid oxide fuel cell based on proton-conducting electrolyte. <i>Journal of Power Sources</i> , 2008 , 177, 369-375	8.9	46
183	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
182	Photocatalytic reforming of C ₃ -polyols for H ₂ production: Part (I). Role of their OH groups. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 681-688	21.8	44
181	A high performance dual electrolyte microfluidic reactor for the utilization of CO ₂ . <i>Applied Energy</i> , 2017 , 194, 549-559	10.7	42
180	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	14.7	42
179	Catalytic oxidation of VOCs over Mn/TiO ₂ /activated carbon under 185 nm VUV irradiation. <i>Chemosphere</i> , 2018 , 208, 550-558	8.4	41
178	A mixed-pH dual-electrolyte microfluidic aluminum-air cell with high performance. <i>Applied Energy</i> , 2017 , 185, 1303-1308	10.7	40

177	Towards orientation-independent performance of membraneless microfluidic fuel cell: Understanding the gravity effects. <i>Applied Energy</i> , 2012 , 90, 80-86	10.7	40
176	Photocatalytic reforming of C3-polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 689-696	21.8	40
175	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	12.8	40
174	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
173	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	2.6	37
172	Counter-flow formic acid microfluidic fuel cell with high fuel utilization exceeding 90%. <i>Applied Energy</i> , 2015 , 160, 930-936	10.7	35
171	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	8.9	35
170	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	8.9	35
169	A vapor feed methanol microfluidic fuel cell with high fuel and energy efficiency. <i>Applied Energy</i> , 2015 , 147, 456-465	10.7	34
168	A pH-differential dual-electrolyte microfluidic electrochemical cells for CO ₂ utilization. <i>Renewable Energy</i> , 2016 , 95, 277-285	8.1	33
167	Modeling of a microfluidic electrochemical cell for CO ₂ utilization and fuel production. <i>Applied Energy</i> , 2013 , 102, 1057-1062	10.7	33
166	A review on the removal of nitrogen oxides from polluted flow by bioreactors. <i>Environmental Reviews</i> , 2010 , 18, 175-189	4.5	33
165	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, 2091-103	6.4	32
164	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
163	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
162	Powering future body sensor network systems: A review of power sources. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112410	11.8	32
161	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	21.8	32
160	Parametric study and optimization of a low-cost paper-based Al-air battery with corrosion inhibition ability. <i>Applied Energy</i> , 2019 , 251, 113342	10.7	31

159	Air-breathing membraneless laminar flow-based fuel cells: Do they breathe enough oxygen?. <i>Applied Energy</i> , 2013 , 104, 400-407	10.7	31
158	Street-level concentrations of nitrogen dioxide and suspended particulate matter in Hong Kong. <i>Atmospheric Environment</i> , 1998 , 33, 1-11	5.3	31
157	Toluene degradation over Mn-TiO ₂ /CeO ₂ composite catalyst under vacuum ultraviolet (VUV) irradiation. <i>Chemical Engineering Science</i> , 2019 , 195, 985-994	4.4	31
156	A circular stacking strategy for microfluidic fuel cells with volatile methanol fuel. <i>Applied Energy</i> , 2016 , 184, 659-669	10.7	30
155	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	21.8	30
154	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
153	On the mechanism of air pollutant re-entrainment in two-dimensional idealized street canyons. <i>Atmospheric Environment</i> , 2011 , 45, 4763-4769	5.3	30
152	Improved land cover and emission factors for modeling biogenic volatile organic compounds emissions from Hong Kong. <i>Atmospheric Environment</i> , 2010 , 44, 1456-1468	5.3	30
151	A dual fuel microfluidic fuel cell utilizing solar energy and methanol. <i>Journal of Power Sources</i> , 2019 , 409, 58-65	8.9	30
150	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. <i>Journal of Hazardous Materials</i> , 2020 , 399, 122967	12.8	29
149	Enhanced photoelectrocatalytic hydrogen production via Bi/BiVO ₄ photoanode under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117954	21.8	29
148	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
147	Photocatalytic decolorization of anthraquinonic dye by TiO ₂ thin film under UVA and visible-light irradiation. <i>Chemical Engineering Journal</i> , 2007 , 129, 153-159	14.7	29
146	A flexible paper-based hydrogen fuel cell for small power applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29680-29691	6.7	28
145	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	6.1	28
144	Photocatalytic reforming of ethanol to H ₂ and CH ₄ over ZnSn(OH) ₆ nanocubes. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1524-1530	6.7	27
143	Vacuum ultraviolet (VUV)-based photocatalytic oxidation for toluene degradation over pure CeO ₂ . <i>Chemical Engineering Science</i> , 2019 , 200, 203-213	4.4	26
142	Use of Pd-Pt loaded graphene aerogel on nickel foam in direct ethanol fuel cell. <i>Solid State Sciences</i> , 2018 , 75, 21-26	3.4	26

141	The use of graphene based materials for fuel cell, photovoltaics, and supercapacitor electrode materials. <i>Solid State Sciences</i> , 2017 , 67, A1-A14	3.4	25
140	The efficacy of vacuum-ultraviolet light disinfection of some common environmental pathogens. <i>BMC Infectious Diseases</i> , 2020 , 20, 127	4	25
139	A Direct Ammonia Microfluidic Fuel Cell using NiCu Nanoparticles Supported on Carbon Nanotubes as an Electrocatalyst. <i>ChemSusChem</i> , 2018 , 11, 2889-2897	8.3	25
138	Abatement of Toluene in the Plasma-Driven Catalysis: Mechanism and Reaction Kinetics. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 877-882	1.3	25
137	Numerical modelling and comparison of the performance of diffuser-type solar chimneys for power generation. <i>Applied Energy</i> , 2017 , 204, 948-957	10.7	24
136	Synergistically catalytic oxidation of toluene over Mn modified g-CN/ZSM-4 under vacuum UV irradiation. <i>Journal of Hazardous Materials</i> , 2018 , 349, 91-100	12.8	24
135	A switchable pH-differential unitized regenerative fuel cell with high performance. <i>Journal of Power Sources</i> , 2016 , 314, 76-84	8.9	24
134	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
133	Effect of oxygen mobility in the lattice of Au/TiO ₂ on formaldehyde oxidation. <i>Kinetics and Catalysis</i> , 2012 , 53, 239-246	1.5	23
132	Energy and exergy analysis of microfluidic fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6526-6536	6.7	23
131	Impacts of environmental factors on urban heating. <i>Journal of Environmental Sciences</i> , 2010 , 22, 1903-9	6.4	23
130	Development of a Clean Biodiesel Fuel in Hong Kong Using Recycled Oil. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 277-282	2.6	23
129	Effect of guide wall on the potential of a solar chimney power plant. <i>Renewable Energy</i> , 2016 , 96, 209-219	19.1	23
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