

# Dennis Yc Leung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Low-cost and efficient Mn/CeO <sub>2</sub> catalyst for photocatalytic VOCs degradation via scalable colloidal solution combustion synthesis method. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 116, 169-179	9.1	3
283	A review of volatile organic compounds (VOCs) degradation by vacuum ultraviolet (VUV) catalytic oxidation.. <i>Journal of Environmental Management</i> , <b>2022</b> , 307, 114559	7.9	1
282	Bifunctional Mn <sup>2+</sup> grafted Ultra-small TiO <sub>2</sub> nanoparticles on carbon cloth with efficient toluene degradation in a continuous flow reactor. <i>Chemical Engineering Science</i> , <b>2022</b> , 250, 117389	4.4	0
281	Construction of a novel Ag/Ag <sub>3</sub> PO <sub>4</sub> /MIL-68(In)-NH <sub>2</sub> plasmonic heterojunction photocatalyst for high-efficiency photocatalysis. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 101, 37-48	9.1	8
280	Catalytic ozonation of VOCs at low temperature: A comprehensive review. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 422, 126847	12.8	19
279	Constructing an ohmic junction of copper@ cuprous oxide nanocomposite with plasmonic enhancement for photocatalysis.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 163-176	9.3	2
278	Photocatalytic reduction of CO <sub>2</sub> and degradation of Bisphenol-S by g-C <sub>3</sub> N <sub>4</sub> /Cu <sub>2</sub> O@Cu S-scheme heterojunction: Study on the photocatalytic performance and mechanism insight. <i>Carbon</i> , <b>2022</b> , 193, 272-284	10.4	1
277	High-Energy SWCNT Cathode for Aqueous Al-Ion Battery Boosted by Multi-Ion Intercalation Chemistry (Adv. Energy Mater. 39/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170155	21.8	
276	A novel Au/g-C <sub>3</sub> N <sub>4</sub> nanosheets/CeO <sub>2</sub> hollow nanospheres plasmonic heterojunction photocatalysts for the photocatalytic reduction of hexavalent chromium and oxidation of oxytetracycline hydrochloride. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128185	14.7	20
275	Flexible direct formate paper fuel cells with high performance and great durability. <i>Journal of Power Sources</i> , <b>2021</b> , 490, 229526	8.9	12
274	Microfluidic fuel cells with different types of fuels: A prospective review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 141, 110806	16.2	21
273	Solid-state Al-air battery with an ethanol gel electrolyte. <i>Green Energy and Environment</i> , <b>2021</b> ,	5.7	2
272	Recent developments of titanium dioxide materials for aquatic antifouling application. <i>Journal of Marine Science and Technology</i> , <b>2021</b> , 26, 301-321	1.7	7
271	Intimately Contacted Ni <sub>2</sub> P on CdS Nanorods for Highly Efficient Photocatalytic H <sub>2</sub> Evolution: New Phosphidation Route and the Interfacial Separation Mechanism of Charge Carriers. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 281, 119443	21.8	32
270	Novel Z-scheme Ag-C <sub>3</sub> N <sub>4</sub> /SnS <sub>2</sub> plasmonic heterojunction photocatalyst for degradation of tetracycline and H <sub>2</sub> production. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126555	14.7	42
269	Fluorinated TiO <sub>2</sub> coupling with MnO <sub>2</sub> nanowires supported on different substrates for photocatalytic VOCs abatement under vacuum ultraviolet irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 280, 119388	21.8	14
268	Insights into the photocatalysis mechanism of the novel 2D/3D Z-Scheme g-CN/SnS heterojunction photocatalysts with excellent photocatalytic performances. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123711	12.8	15

267	Study on the Photocatalysis Mechanism of the Z-Scheme Cobalt Oxide Nanocubes/Carbon Nitride Nanosheets Heterojunction Photocatalyst with High Photocatalytic Performances. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123839	12.8	10
266	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> , <b>2021</b> , 410, 124539	12.8	15
265	Towards the digitalisation of porous energy materials: evolution of digital approaches for microstructural design. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2549-2576	35.4	10
264	Synergetic effect of vacuum ultraviolet photolysis and ozone catalytic oxidation for toluene degradation over MnO <sub>2</sub> -rGO composite catalyst. <i>Chemical Engineering Science</i> , <b>2021</b> , 231, 116288	4.4	10
263	High-Performance Aqueous Na <sup>+</sup> /Zn Hybrid Ion Battery Boosted by Water-In-Gel Electrolyte. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008783	15.6	15
262	High-Energy SWCNT Cathode for Aqueous Al-Ion Battery Boosted by Multi-Ion Intercalation Chemistry. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101514	21.8	4
261	High-Performance MnO <sub>2</sub> /Al Battery with In Situ Electrochemically Reformed Al MnO <sub>2</sub> Nanosphere Cathode.. <i>Small Methods</i> , <b>2021</b> , 5, e2100491	12.8	3
260	A novel Z-scheme CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction photocatalyst for degradation of Bisphenol A and hydrogen evolution and insight of the photocatalysis mechanism. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 85, 18-29	9.1	21
259	Doubling the power output of a Mg-air battery with an acid-salt dual-electrolyte configuration. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230144	8.9	5
258	A printed paper-based Zn-air/Ag hybrid battery with switchable working modes. <i>Electrochimica Acta</i> , <b>2021</b> , 396, 139237	6.7	1
257	Mechanistic study of vacuum UV catalytic oxidation for toluene degradation over CeO <sub>2</sub> nanorods. <i>Green Energy and Environment</i> , <b>2020</b> ,	5.7	1
256	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 399, 122967	12.8	29
255	Carbon doped ultra-small TiO <sub>2</sub> coated on carbon cloth for efficient photocatalytic toluene degradation under visible LED light irradiation. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146780	6.7	12
254	The efficacy of vacuum-ultraviolet light disinfection of some common environmental pathogens. <i>BMC Infectious Diseases</i> , <b>2020</b> , 20, 127	4	25
253	Printing Al-air batteries on paper for powering disposable printed electronics. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227685	8.9	16
252	Graphene materials in green energy applications: Recent development and future perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 120, 109656	16.2	66
251	Integrating micro metal-air batteries in lateral flow test for point-of-care applications. <i>International Journal of Energy Research</i> , <b>2020</b> ,	4.5	2
250	Powering future body sensor network systems: A review of power sources. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 166, 112410	11.8	32

249	Boosting cell performance and fuel utilization efficiency in a solar assisted methanol microfluidic fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 21796-21807	6.7	5
248	Efficient photocatalytic oxidation of gaseous toluene over F-doped TiO <sub>2</sub> in a wet scrubbing process. <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 121025	14.7	21
247	Highly enhanced performance of heterojunction Bi <sub>2</sub> S <sub>3</sub> /BiVO <sub>4</sub> photoanode for photoelectrocatalytic hydrogen production under solar light irradiation. <i>Chemical Engineering Science</i> , <b>2020</b> , 211, 115266	4.4	15
246	TiO <sub>2</sub> nanotube arrays modified with nanoparticles of platinum group metals (Pt, Pd, Ru): enhancement on photoelectrochemical performance. <i>Journal of Nanoparticle Research</i> , <b>2019</b> , 21, 1	2.3	12
245	Titanium oxide based photocatalytic materials development and their role of in the air pollutants degradation: Overview and forecast. <i>Environment International</i> , <b>2019</b> , 125, 200-228	12.9	127
244	Parametric study and optimization of a low-cost paper-based Al-air battery with corrosion inhibition ability. <i>Applied Energy</i> , <b>2019</b> , 251, 113342	10.7	31
243	A flexible paper-based hydrogen fuel cell for small power applications. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29680-29691	6.7	28
242	Simultaneous removal of tetracycline and Cr(VI) by a novel three-dimensional AgI/BiVO <sub>4</sub> p-n junction photocatalyst and insight into the photocatalytic mechanism. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 716-725	14.7	115
241	Wet scrubber coupled with heterogeneous UV/Fenton for enhanced VOCs oxidation over Fe/ZSM-5 catalyst. <i>Chemosphere</i> , <b>2019</b> , 227, 401-408	8.4	16
240	In-situ synthesis of heterojunction TiO <sub>2</sub> /MnO <sub>2</sub> nanostructure with excellent performance in vacuum ultraviolet photocatalytic oxidation of toluene. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118034	21.8	30
239	Liquid-free Al-air batteries with paper-based gel electrolyte: A green energy technology for portable electronics. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226896	8.9	22
238	Enhanced photoelectrocatalytic hydrogen production via Bi/BiVO <sub>4</sub> photoanode under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 258, 117954	21.8	29
237	Combining Al-air battery with paper-making industry, a novel type of flexible primary battery technology. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 947-957	6.7	22
236	A low-cost and dendrite-free rechargeable aluminium-ion battery with superior performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17420-17425	13	59
235	GO-modified flexible polymer nanocomposites fabricated via 3D stereolithography. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 736-743	4.5	11
234	Vacuum ultraviolet (VUV)-based photocatalytic oxidation for toluene degradation over pure CeO <sub>2</sub> . <i>Chemical Engineering Science</i> , <b>2019</b> , 200, 203-213	4.4	26
233	BTZ-copolymer loaded graphene aerogel as new type Green and metal-free visible light photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 50-63	21.8	13
232	Wet scrubber coupled with UV/PMS process for efficient removal of gaseous VOCs: Roles of sulfate and hydroxyl radicals. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 632-640	14.7	57

231	Toward a mechanistic understanding of microfluidic droplet-based extraction and separation of lanthanides. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 673-679	14.7	21
230	Novel Ag/p-AgBr/n-BiVO <sub>4</sub> Plasmonic Heterojunction Photocatalyst: Study on the Excellent Photocatalytic Performance and Photocatalytic Mechanism. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 694-704	6.1	28
229	Efficient MnOx/SiO <sub>2</sub> @AC catalyst for ozone-catalytic oxidation of gaseous benzene at ambient temperature. <i>Applied Surface Science</i> , <b>2019</b> , 470, 439-447	6.7	22
228	A novel Z-scheme Ag <sub>3</sub> VO <sub>4</sub> /BiVO <sub>4</sub> heterojunction photocatalyst: Study on the excellent photocatalytic performance and photocatalytic mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 448-458	21.8	200
227	Study the photocatalytic mechanism of the novel Ag/p-Ag <sub>2</sub> O/n-BiVO <sub>4</sub> plasmonic photocatalyst for the simultaneous removal of BPA and chromium(VI). <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 1352-1362	14.7	70
226	A dual fuel microfluidic fuel cell utilizing solar energy and methanol. <i>Journal of Power Sources</i> , <b>2019</b> , 409, 58-65	8.9	30
225	Innovative paper-based Al-air batteries as a low-cost and green energy technology for the miniwatt market. <i>Journal of Power Sources</i> , <b>2019</b> , 414, 278-282	8.9	35
224	g-C <sub>3</sub> N <sub>4</sub> photoanode for photoelectrocatalytic synergistic pollutant degradation and hydrogen evolution. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 658-665	6.7	59
223	Toluene degradation over Mn-TiO <sub>2</sub> /CeO <sub>2</sub> composite catalyst under vacuum ultraviolet (VUV) irradiation. <i>Chemical Engineering Science</i> , <b>2019</b> , 195, 985-994	4.4	31
222	Synergetic degradation of VOCs by vacuum ultraviolet photolysis and catalytic ozonation over Mn-xCe/ZSM-5. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 364, 770-779	12.8	40
221	Graphene-carbon nanotube composite aerogel with Ru@Pt nanoparticle as a porous electrode for direct methanol microfluidic fuel cell. <i>Applied Energy</i> , <b>2018</b> , 217, 258-265	10.7	49
220	A novel 3D plasmonic p-n heterojunction photocatalyst: Ag nanoparticles on flower-like p-Ag <sub>2</sub> S/n-BiVO <sub>4</sub> and its excellent photocatalytic reduction and oxidation activities. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 171-180	21.8	126
219	Heterogeneous activation of peroxymonosulfate over monodispersed Co <sub>3</sub> O <sub>4</sub> /activated carbon for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , <b>2018</b> , 341, 383-391	14.7	63
218	A facile VUV/H <sub>2</sub> O system without auxiliary substances for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 1422-1429	14.7	22
217	Numerical investigation and optimization of vapor-feed microfluidic fuel cells with high fuel utilization. <i>Electrochimica Acta</i> , <b>2018</b> , 261, 127-136	6.7	17
216	Synergistically catalytic oxidation of toluene over Mn modified g-CN/ZSM-4 under vacuum UV irradiation. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 349, 91-100	12.8	24
215	A counter-flow-based dual-electrolyte protocol for multiple electrochemical applications. <i>Applied Energy</i> , <b>2018</b> , 217, 241-248	10.7	7
214	Microfluidics-based pH-differential reactor for CO <sub>2</sub> utilization: A mathematical study. <i>Applied Energy</i> , <b>2018</b> , 227, 525-532	10.7	9

213	A Direct Ammonia Microfluidic Fuel Cell using NiCu Nanoparticles Supported on Carbon Nanotubes as an Electrocatalyst. <i>ChemSusChem</i> , <b>2018</b> , 11, 2889-2897	8.3	25
212	Catalytic oxidation of VOCs over Mn/TiO <sub>2</sub> /activated carbon under 185 nm VUV irradiation. <i>Chemosphere</i> , <b>2018</b> , 208, 550-558	8.4	41
211	Use of Pd-Pt loaded graphene aerogel on nickel foam in direct ethanol fuel cell. <i>Solid State Sciences</i> , <b>2018</b> , 75, 21-26	3.4	26
210	Efficient MnO <sub>x</sub> supported on coconut shell activated carbon for catalytic oxidation of indoor formaldehyde at room temperature. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 2050-2057	14.7	119
209	Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO <sub>2</sub> under vacuum ultraviolet (VUV) irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 78-87	21.8	67
208	Enhanced Performance and Conversion Pathway for Catalytic Ozonation of Methyl Mercaptan on Single-Atom Ag Deposited Three-Dimensional Ordered Mesoporous MnO. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13399-13409	10.3	76
207	A mixed-pH dual-electrolyte microfluidic aluminum-air cell with high performance. <i>Applied Energy</i> , <b>2017</b> , 185, 1303-1308	10.7	40
206	Polymeric Templating Synthesis of Anatase TiO <sub>2</sub> Nanoparticles from Low-Cost Inorganic Titanium Sources. <i>ChemistrySelect</i> , <b>2017</b> , 2, 702-706	1.8	4
205	The applications of graphene-based materials in pollutant control and disinfection. <i>Progress in Solid State Chemistry</i> , <b>2017</b> , 45-46, 1-8	8	6
204	Mathematical Modelling of the Performance of a Solar Chimney Power Plant with Divergent Chimneys. <i>Energy Procedia</i> , <b>2017</b> , 110, 440-445	2.3	11
203	UV/H <sub>2</sub> O <sub>2</sub> : An efficient aqueous advanced oxidation process for VOCs removal. <i>Chemical Engineering Journal</i> , <b>2017</b> , 324, 44-50	14.7	66
202	Effect of Divergent Chimneys on the Performance of a Solar Chimney Power Plant. <i>Energy Procedia</i> , <b>2017</b> , 105, 7-13	2.3	10
201	The use of graphene based materials for fuel cell, photovoltaics, and supercapacitor electrode materials. <i>Solid State Sciences</i> , <b>2017</b> , 67, A1-A14	3.4	25
200	Numerical modelling and comparison of the performance of diffuser-type solar chimneys for power generation. <i>Applied Energy</i> , <b>2017</b> , 204, 948-957	10.7	24
199	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> , <b>2017</b> , 349, 75-83	8.9	52
198	Impact of the geometry of divergent chimneys on the power output of a solar chimney power plant. <i>Energy</i> , <b>2017</b> , 120, 1-11	7.9	48
197	Microfluidic Aluminum-air Cell with Methanol-based Anolyte. <i>Energy Procedia</i> , <b>2017</b> , 105, 4691-4697	2.3	1
196	Numerical Modelling of a Dual Electrolyte Membraneless Electrolytic Cell for CO <sub>2</sub> to Fuel Conversion. <i>Energy Procedia</i> , <b>2017</b> , 105, 4053-4058	2.3	1



195	Mesoporous TiO <sub>2</sub> under VUV irradiation: Enhanced photocatalytic oxidation for VOCs degradation at room temperature. <i>Chemical Engineering Journal</i> , <b>2017</b> , 327, 490-499	14.7	102
194	Catalytic oxidation of benzene over Mn modified TiO <sub>2</sub> /ZSM-5 under vacuum UV irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 870-878	21.8	79
193	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> , <b>2017</b> , 75, 775-795	16.2	106
192	Characterization of a microfluidic reactor for CO <sub>2</sub> conversion with electrolyte recycling. <i>Renewable Energy</i> , <b>2017</b> , 102, 15-20	8.1	7
191	A high performance dual electrolyte microfluidic reactor for the utilization of CO <sub>2</sub> . <i>Applied Energy</i> , <b>2017</b> , 194, 549-559	10.7	42
190	Ru@Pt core shell nanoparticle on graphene carbon nanotube composite aerogel as a flow through anode for direct methanol microfluidic fuel cell. <i>Energy Procedia</i> , <b>2017</b> , 142, 1522-1527	2.3	9
189	Numerical Modelling of the Compressible Airflow in a Solar-Waste-Heat Chimney Power Plant. <i>Energy Procedia</i> , <b>2017</b> , 142, 642-647	2.3	6
188	An Up-scaling Strategy for Counter-flow Based Microfluidic Network: A Numerical Study. <i>Energy Procedia</i> , <b>2017</b> , 142, 661-666	2.3	1
187	Durability and stability of vapor-feed microfluidic fuel cells, a preliminary study. <i>Energy Procedia</i> , <b>2017</b> , 142, 1340-1345	2.3	4
186	A Photocatalytic Rotating Disc Reactor with TiO <sub>2</sub> Nanowire Arrays Deposited for Industrial Wastewater Treatment. <i>Molecules</i> , <b>2017</b> , 22,	4.8	7
185	Impact of Guide Wall Geometry on the Power Output of a Solar Chimney Power Plant. <i>Energy Procedia</i> , <b>2016</b> , 88, 414-421	2.3	
184	A circular stacking strategy for microfluidic fuel cells with volatile methanol fuel. <i>Applied Energy</i> , <b>2016</b> , 184, 659-669	10.7	30
183	Toward the scaling up of microfluidic fuel cells, investigation and optimization of the aggravated cathode flooding problem. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 312-322	6.7	15
182	Boosting the performance of formic acid microfluidic fuel cell: Oxygen annealing enhanced Pd@graphene electrocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 10249-10254	6.7	18
181	A high-performance aluminum-feed microfluidic fuel cell stack. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 4278-4286	13.6	19
180	A high specific capacity membraneless aluminum-air cell operated with an inorganic/organic hybrid electrolyte. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 19-26	8.9	9
179	A pH-differential dual-electrolyte microfluidic electrochemical cells for CO <sub>2</sub> utilization. <i>Renewable Energy</i> , <b>2016</b> , 95, 277-285	8.1	33
178	A switchable pH-differential unitized regenerative fuel cell with high performance. <i>Journal of Power Sources</i> , <b>2016</b> , 314, 76-84	8.9	24

177	Efficient degradation of gaseous benzene by VUV photolysis combined with ozone-assisted catalytic oxidation: Performance and mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 186, 62-68	21.8	72
176	An overview on biogas generation from anaerobic digestion of food waste. <i>International Journal of Green Energy</i> , <b>2016</b> , 13, 119-131	3	71
175	Photoelectrocatalytic hydrogen generation and simultaneous degradation of organic pollutant via CdSe/TiO <sub>2</sub> nanotube arrays. <i>Applied Surface Science</i> , <b>2016</b> , 362, 490-497	6.7	69
174	Recent Development of VUV-Based Processes for Air Pollutant Degradation. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	16
173	Scaling Up Microfluidic Aluminum-Air Cell with Electrochemical Impedance Spectroscopy (EIS) Assisted Performance Analysis. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1032-F1037	3.9	8
172	A Low-Cost Mechanically Rechargeable Aluminum-Air Cell for Energy Conversion Using Low-Grade Aluminum Foil. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2016</b> , 13,	2	6
171	Effect of guide wall on the potential of a solar chimney power plant. <i>Renewable Energy</i> , <b>2016</b> , 96, 209-219	19.1	23
170	A Switchable pH-differential Reactor with High Reactivity and Efficiency for CO <sub>2</sub> Utilization. <i>Energy Procedia</i> , <b>2016</b> , 88, 634-641	2.3	
169	A review on unitized regenerative fuel cell technologies, part-A: Unitized regenerative proton exchange membrane fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 65, 961-977	16.2	151
168	Novel urchin-like Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> @TiO <sub>2</sub> microparticles with magnetically separable and photocatalytic properties. <i>RSC Advances</i> , <b>2015</b> , 5, 55363-55371	3.7	7
167	A vapor feed methanol microfluidic fuel cell with high fuel and energy efficiency. <i>Applied Energy</i> , <b>2015</b> , 147, 456-465	10.7	34
166	Counter-flow formic acid microfluidic fuel cell with high fuel utilization exceeding 90%. <i>Applied Energy</i> , <b>2015</b> , 160, 930-936	10.7	35
165	Ozone-catalytic oxidation of gaseous benzene over MnO <sub>2</sub> /ZSM-5 at ambient temperature: Catalytic deactivation and its suppression. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 24-31	14.7	63
164	Enhanced degradation of gaseous benzene under vacuum ultraviolet (VUV) irradiation over TiO <sub>2</sub> modified by transition metals. <i>Chemical Engineering Journal</i> , <b>2015</b> , 259, 534-541	14.7	61
163	A Counter-flow Microfluidic Fuel Cell Achieving Concentrated Fuel Operation. <i>Energy Procedia</i> , <b>2015</b> , 75, 1990-1995	2.3	5
162	Outdoor-indoor air pollution in urban environment: challenges and opportunity. <i>Frontiers in Environmental Science</i> , <b>2015</b> , 2,	4.8	116
161	A High Performance Dual Electrolyte Aluminium-air Cell. <i>Energy Procedia</i> , <b>2015</b> , 75, 1983-1989	2.3	2
160	In situ photogalvanic acceleration of optofluidic kinetics: a new paradigm for advanced photocatalytic technologies. <i>RSC Advances</i> , <b>2015</b> , 5, 791-796	3.7	1



159	Low temperature catalytic oxidation of volatile organic compounds: a review. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2649-2669	5.5	463
158	Electrochemical Reduction of Carbon Dioxide to Formic Acid. <i>ChemElectroChem</i> , <b>2014</b> , 1, 836-849	4.3	151
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11	Modelling of Motor Vehicle Fuel Consumption and Emissions Using a Power-Based Model. <i>Environmental Monitoring and Assessment</i> , <b>2000</b> , 65, 21-29	3.1	13
10	Modelling of Exhaust Emissions from Spark Ignition Vehicles. <i>HKIE Transactions</i> , <b>2000</b> , 7, 51-54	2.9	
9	Simulations of wind field and other meteorological parameters in the complex terrain of Hong Kong using MC2 3A mesoscale numerical model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1999</b> , 83, 71-82	3.7	4
8	Street-level concentrations of nitrogen dioxide and suspended particulate matter in Hong Kong. <i>Atmospheric Environment</i> , <b>1998</b> , 33, 1-11	5.3	31
7	Kinetic study of scrap tyre pyrolysis and combustion. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1998</b> , 45, 153-169	6	141
6	Assessment of the Air Pollution Problems inside Public Transport Interchanges in Hong Kong. <i>HKIE Transactions</i> , <b>1998</b> , 5, 58-65	2.9	
5	Numerical study of atmospheric dispersion under unstably stratified atmosphere. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1997</b> , 67-68, 767-779	3.7	1
4	Improved estimators for the standard deviations of horizontal wind fluctuations. <i>Atmospheric Environment</i> , <b>1996</b> , 30, 2457-2461	5.3	11
3	Air Pollution Impact Due to Road Transportation in Hong Kong in the Next Decade. <i>HKIE Transactions</i> , <b>1995</b> , 2, 39-47	2.9	2
2	Non-aqueous Al-ion batteries: cathode materials and corresponding underlying ion storage mechanisms. <i>Rare Metals</i> , 1	5.5	1
1	Evolution of Discharge Products on Carbon Nanotube Cathodes in LiD2 Batteries Unraveled by Molecular Dynamics and Density Functional Theory. <i>ACS Catalysis</i> , 5048-5059	13.1	0