Michael Kwok Hi Leung

List of Publications by Year in Descending Order

185 papers	14,994 citations	47 h-index	120 g-index
190 ext. papers	17,286 ext. citations	8 avg, IF	6.92 L-index

#	Paper	IF	Citations
185	Valence Engineering of Polyvalent Cobalt Encapsulated in a Carbon Nanofiber as an Efficient Trifunctional Electrocatalyst for the Zn-Air Battery and Overall Water Splitting.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
184	Photocatalytic fuel cell A review. *Chemical Engineering Journal*, **2022**, 428, 131074	14.7	9
183	On the rational development of advanced thermochemical thermal batteries for short-term and long-term energy storage. *Renewable and Sustainable Energy Reviews*, **2022**, 164, 112557	16.2	0
182	Performance Assessment and Working Fluid Selection for Novel Integrated Vapor Compression Cycle and Organic Rankine Cycle for Ultra Low Grade Waste Heat Recovery. *Sustainability*, **2021**, 13, 11592	3.6	0
181	Mo2C embedded on nitrogen-doped carbon toward electrocatalytic nitrogen reduction to ammonia under ambient conditions. *International Journal of Hydrogen Energy*, **2021**, 46, 13011-13019	6.7	10
180	Atomically Dispersed Iron Metal Site in a Porphyrin-Based Metal-Organic Framework for Photocatalytic Nitrogen Fixation. *ACS Nano*, **2021**, 15, 9670-9678	16.7	30
179	Green hydrogen production by solar photocatalysis using Pt-TiO2 nanosheets with reactive facets. *HKIE Transactions*, **2021**, 28, 75-81	2.9	
178	Recent developments of titanium dioxide materials for aquatic antifouling application. *Journal of Marine Science and Technology*, **2021**, 26, 301-321	1.7	7
177	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 4192-4198	16.4	75
176	Comparative dynamic performance of hybrid absorption thermal batteries using H2O/1,3-dimethylimidazolium dimethylphosphate. *Energy Conversion and Management*, **2021**, 228, 113690	10.6	7
175	Modulated FeCo nanoparticle in situ growth on the carbon matrix for high-performance oxygen catalysts. *Materials Today Energy*, **2021**, 19, 100610	7	5
174	Electrochemical synthesis of ammonia from nitrogen catalyzed by CoMoO4 nanorods under ambient conditions. *Journal of Materials Chemistry A*, **2021**, 9, 5060-5066	13	6
173	Hierarchical Carbon Nanocages Embedding High-loading Sulfur for Catalyzing Oxygen Reduction Reactions. *ChemCatChem*, **2021**, 13, 2045-2052	5.2	1
172	Coalescence-Induced Jumping Droplets on Nanostructured Biphilic Surfaces with Contact Electrification Effects. *ACS Applied Materials & Interfaces*, **2021**, 13, 11470-11479	9.5	8
171	Advanced/hybrid thermal energy storage technology: material, cycle, system and perspective. *Renewable and Sustainable Energy Reviews*, **2021**, 145, 111088	16.2	17
170	Dual-electrolyte aluminum/air microfluidic fuel cell with electrolyte-recirculation. *Electrochimica Acta*, **2021**, 388, 138584	6.7	5
169	Policy mixes and the policy learning process of energy transitions: Insights from the feed-in tariff policy and urban community solar in Hong Kong. *Energy Policy*, **2021**, 157, 112214	7.2	6

168	Bubble-like Fe-encapsulated N,S-codoped carbon nanofibers as efficient bifunctional oxygen electrocatalysts for robust Zn-air batteries. *Nano Research*, **2020**, 13, 2175-2182	10	23
167	Activation of peroxymonosulfate and recycled effluent filtration over cathode membrane CNFs-CoFe2O4/PVDF in a photocatalytic fuel cell for water pollution control. *Chemical Engineering Journal*, **2020**, 399, 125731	14.7	17
166	Interface Modulation of MoS /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. *Small*, **2020**, 16, e2002212	11	39
165	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. *Applied Energy*, **2020**, 264, 114768	10.7	9
164	Trielectrolyte aluminum-air cell with high stability and voltage beyond 2.2 V. *Materials Today Physics*, **2020**, 14, 100242	8	7
163	A novel hybrid-energy heat pump with refrigerant injection: Performance characterization and injection optimization. *Energy Conversion and Management*, **2020**, 208, 112584	10.6	10
162	Designing bifuncitonal molecular devices with a metalloporphyrin dimer. *Physical Chemistry Chemical Physics*, **2020**, 22, 4080-4085	3.6	2
161	Chillers of air-conditioning systems: An overview. *HKIE Transactions*, **2020**, 27, 113-127	2.9	1
160	A droplet-based electricity generator with high instantaneous power density. *Nature*, **2020**, 578, 392-396	50.4	391
159	Screening of novel water/ionic liquid working fluids for absorption thermal energy storage in cooling systems. *International Journal of Energy Research*, **2020**, 44, 9367-9381	4.5	12
158	A review of non-precious metal single atom confined nanomaterials in different structural dimensions (1D 3D) as highly active oxygen redox reaction electrocatalysts. *Journal of Materials Chemistry A*, **2020**, 8, 2222-2245	13	39
157	Thermo-economic and environmental analysis of integrating renewable energy sources in a district heating and cooling network. *Energy Efficiency*, **2020**, 13, 79-100	3	10
156	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. *Journal of the American Chemical Society*, **2020**, 142, 2404-2412	16.4	317
155	Kinetic-Oriented Construction of MoS2 Synergistic Interface to Boost pH-Universal Hydrogen Evolution. *Advanced Functional Materials*, **2020**, 30, 1908520	15.6	35
154	A review on independent and integrated/coupled two-phase loop thermosyphons. *Applied Energy*, **2020**, 280, 115885	10.7	13
153	Hydrogen Evolution Electrocatalysis: Interface Modulation of MoS2/Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis (Small 28/2020). *Small*, **2020**, 16, 2070158	11	2
152	Transient and seasonal performance evaluation of a novel flexible heat pump for solar cooling. *Energy Conversion and Management*, **2020**, 223, 113269	10.6	5
151	Bimetallic Mo o nanoparticles anchored on nitrogen-doped carbon for enhanced electrochemical nitrogen fixation. *Journal of Materials Chemistry A*, **2020**, 8, 9091-9098	13	29

150	Thermal behaviour of Trombe wall with venetian blind in summer and transition seasons. *Energy Procedia*, **2019**, 158, 1059-1064	2.3	5
149	La0.8Sr0.2MnO3 based perovskite with A-site deficiencies as high performance bifunctional electrocatalyst for oxygen reduction and evolution reaction in alkaline. *Energy Procedia*, **2019**, 158, 5804-5810	2.3	7
148	NiFe layered double hydroxide/BiVO4 photoanode based dual-photoelectrode photocatalytic fuel cell for enhancing degradation of azo dye and electricity generation. *Energy Procedia*, **2019**, 158, 2188-2195	2.3	12
147	NiFe-layered double hydroxide decorated BiVO4 photoanode based bi-functional solar-light driven dual-photoelectrode photocatalytic fuel cell. *Applied Energy*, **2019**, 255, 113770	10.7	18
146	Chemical vapor deposition growth of carbon nanotube confined nickel sulfides from porous electrospun carbon nanofibers and their superior lithium storage properties. *Nanoscale Advances*, **2019**, 1, 656-663	5.1	11
145	Oxidizing solid Co into hollow Co3O4 within electrospun (carbon) nanofibers towards enhanced lithium storage performance. *Journal of Materials Chemistry A*, **2019**, 7, 3024-3030	13	72
144	Microwave-Hydrothermal Synthesis of Hierarchical Sb2WO6 Nanostructures as a New Anode Material for Sodium Storage. *ChemistrySelect*, **2019**, 4, 1078-1083	1.8	8
143	Development of clustering-based sensor fault detection and diagnosis strategy for chilled water system. *Energy and Buildings*, **2019**, 186, 17-36	7	22
142	Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species. *Applied Catalysis B: Environmental*, **2019**, 257, 117898	21.8	28
141	Micro/nanostructured MnCo2O4.5 anodes with high reversible capacity and excellent rate capability for next generation lithium-ion batteries. *Applied Energy*, **2019**, 252, 113452	10.7	7
140	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	14.7	36
139	Effective use of venetian blind in Trombe wall for solar space conditioning control. *Applied Energy*, **2019**, 250, 452-460	10.7	33
138	Experimental study on the temperature management behaviours of a controllable loop thermosyphon. *Energy Conversion and Management*, **2019**, 195, 436-446	10.6	8
137	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. *Journal of Materials Chemistry A*, **2019**, 7, 11877-11885	13	16
136	SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. *National Science Review*, **2019**, 6, 540-550	10.8	54
135	Numerical analysis of a novel household refrigerator with controllable loop thermosyphons. *International Journal of Refrigeration*, **2019**, 104, 134-143	3.8	5
134	Recycling LiCoO2 with methanesulfonic acid for regeneration of lithium-ion battery electrode materials. *Journal of Power Sources*, **2019**, 436, 226828	8.9	40
133	Electricity generating & high efficiency advanced oxidation process including peroxymonosulfate activation in photocatalytic fuel cell. *Chemical Engineering Journal*, **2019**, 378, 122148	14.7	26

132	Highly efficient AgBr/BiVO4 photoanode for photocatalytic fuel cell. *Materials Letters*, **2019**, 236, 394-397	3.3	28
131	Janus effect of O2 plasma modification on the electrocatalytic hydrogen evolution reaction of MoS2. *Journal of Catalysis*, **2018**, 361, 384-392	7.3	28
130	Barriers to adopting solar photovoltaic systems in Hong Kong. *Energy and Environment*, **2018**, 29, 649-663	2.4	4
129	A novel and facile solvothermal-and-hydrothermal method for synthesis of uniform BiVO4 film with high photoelectrochemical performance. *Journal of Alloys and Compounds*, **2018**, 732, 593-602	5.7	14
128	Atomic layer deposition of TiO shells on MoO nanobelts allowing enhanced lithium storage performance. *Chemical Communications*, **2018**, 54, 7782-7785	5.8	28
127	Solar photocatalytic asphalt for removal of vehicular NOx: A feasibility study. *Applied Energy*, **2018**, 225, 535-541	10.7	25
126	Nitrogen-doped graphene derived from ionic liquid as metal-free catalyst for oxygen reduction reaction and its mechanisms. *Applied Energy*, **2018**, 225, 513-521	10.7	39
125	Barriers and policy enablers for solar photovoltaics (PV) in cities: Perspectives of potential adopters in Hong Kong. *Renewable and Sustainable Energy Reviews*, **2018**, 92, 921-936	16.2	42
124	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. *Materials Letters*, **2017**, 200, 75-78	3.3	18
123	Controlling charge transfer in quantum-size titania for photocatalytic applications. *Applied Catalysis B: Environmental*, **2017**, 215, 85-92	21.8	40
122	Engineering stepped edge surface structures of MoS2 sheet stacks to accelerate the hydrogen evolution reaction. *Energy and Environmental Science*, **2017**, 10, 593-603	35.4	236
121	Nanohybridization of MoS2 with Layered Double Hydroxides Efficiently Synergizes the Hydrogen Evolution in Alkaline Media. *Joule*, **2017**, 1, 383-393	27.8	262
120	Optimal design of current collectors for microfluidic fuel cell with flow-through porous electrodes: Model and experiment. *Applied Energy*, **2017**, 206, 413-424	10.7	23
119	Design Principles of Current Collectors in Microfluidic Fuel Cell with Flow-through Porous Electrodes. *Energy Procedia*, **2017**, 105, 1557-1563	2.3	3
118	Phenyl Hypophosphorous Acid-Assisted Synthesis of Carbon-Modified Anatase-Brookite Bicrystal TiO2 Nanoparticles with Enhanced Visible-Light Photocatalytic Performance. *ChemistrySelect*, **2017**, 2, 6109-6117	1.8	0
117	Oxygen Reduction Reaction Mechanism of Nitrogen-Doped Graphene Derived from Ionic Liquid. *Energy Procedia*, **2017**, 142, 1319-1326	2.3	9
116	Advanced Solar Photocatalytic Asphalt for Removal of Vehicular NOx. *Energy Procedia*, **2017**, 143, 811-816	2.3	7
115	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	2.3	18

114	Understanding the performance of optofluidic fuel cells: Experimental and theoretical analyses. *Chemical Engineering Journal*, **2016**, 283, 1455-1464	14.7	12
113	Vanadium microfluidic fuel cell with novel multi-layer flow-through porous electrodes: Model, simulations and experiments. *Applied Energy*, **2016**, 177, 729-739	10.7	35
112	Dimensionless parametric sensitivity analysis of microfluidic fuel cell with flow-through porous electrodes. *Electrochimica Acta*, **2016**, 187, 636-645	6.7	14
111	Recent Development of Plasmonic Resonance-Based Photocatalysis and Photovoltaics for Solar Utilization. *Molecules*, **2016**, 21,	4.8	47
110	Synthesis of SnSb-embedded carbon-silica fibers via electrospinning: Effect of TEOS on structural evolutions and electrochemical properties. *Materials Today Energy*, **2016**, 1-2, 24-32	7	33
109	Effect of composites based nickel foam anode in microbial fuel cell using Acetobacter aceti and Gluconobacter roseus as a biocatalysts. *Bioresource Technology*, **2016**, 217, 113-20	11	36
108	Plasma-grafted anion-exchange membrane preparation and process analysis. *Electrochimica Acta*, **2016**, 204, 218-226	6.7	13
107	Partial modification of flow-through porous electrodes in microfluidic fuel cell. *Energy*, **2015**, 88, 563-571	7.9	27
106	The self-assembly synthesis of tungsten oxide quantum dots with enhanced optical properties. *Journal of Materials Chemistry C*, **2015**, 3, 3280-3285	7.1	57
105	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, 7214-21	9.5	53
104	Microbial Fuel Cell for Biomass Energy Conversion **2015**, 1-21		
103	Interfacial electron transfer and bioelectrocatalysis of carbonized plant material as effective anode of microbial fuel cell. *Electrochimica Acta*, **2015**, 157, 314-323	6.7	91
102	In situ photogalvanic acceleration of optofluidic kinetics: a new paradigm for advanced photocatalytic technologies. *RSC Advances*, **2015**, 5, 791-796	3.7	1
101	Electrochemical Reduction of Carbon Dioxide to Formic Acid. *ChemElectroChem*, **2014**, 1, 836-849	4.3	151
100	In situ deposition of Ag-Ag2S hybrid nanoparticles onto TiO2 nanotube arrays towards fabrication of photoelectrodes with high visible light photoelectrochemical properties. *Physical Chemistry Chemical Physics*, **2014**, 16, 676-80	3.6	54
99	Facile synthesis and photocatalytic disinfection of boron self-doped TiO2 nanosheets. *Materials Letters*, **2014**, 115, 57-59	3.3	11
98	Synthesis and Characterization of Tin Titanate Nanotubes: Precursors for Nanoparticulate Sn-Doped TiO2 Anodes with Synergistically Improved Electrochemical Performance. *ChemElectroChem*, **2014**, 1, 1563-1569	4.3	34
97	Facile preparation of PdNi/rGO and its electrocatalytic performance towards formic acid oxidation. *Journal of Materials Chemistry A*, **2014**, 2, 3894	13	70

96	Facile synthesis of TiO2 hollow spheres composed of high percentage of reactive facets for enhanced photocatalytic activity. *CrystEngComm*, **2014**, 16, 10046-10055	3.3	35
95	Ultrafine single-crystal TiOF2 nanocubes with mesoporous structure, high activity and durability in visible light driven photocatalysis. *Nanoscale*, **2014**, 6, 897-902	7.7	46
94	Hydrothermal synthesis and electrochemical properties of tin titanate nanowires coupled with SnO2 nanoparticles for Li-ion batteries. *CrystEngComm*, **2014**, 16, 7529-7535	3.3	19
93	Reply to Comments on Hollow Carbon Fibers Derived From Natural Cotton as Effective Sorbents for Oil Spill Cleanup *Industrial & Engineering Chemistry Research*, **2014**, 53, 3413-3413	3.9	
92	Solar photocatalytic fuel cell using CdS TiO2 photoanode and air-breathing cathode for wastewater treatment and simultaneous electricity production. *Chemical Engineering Journal*, **2014**, 253, 174-182	14.7	74
91	A Numerical Study on Microfluidic Fuel Cell: Improving Fuel Utilization and Fuel Operation Concentration. *Energy Procedia*, **2014**, 61, 250-253	2.3	6
90	Performance Evaluation of a Wind Power-Augmented Device on an Onsite Exhaust Air Energy Recovery Wind Turbine. *Advanced Materials Research*, **2014**, 935, 126-129	0.5	
89	A high-capacity dual-electrolyte aluminum/air electrochemical cell. *RSC Advances*, **2014**, 4, 30857-30863	3.7	32
88	A Theoretical Study on Photocatalytic Fuel Cell. *Energy Procedia*, **2014**, 61, 246-249	2.3	10
87	Development and characteristics of a membraneless microfluidic fuel cell array. *Electrochimica Acta* , **2014**, 135, 467-477	6.7	50
86	A hybrid aluminum/hydrogen/air cell system. *International Journal of Hydrogen Energy*, **2013**, 38, 14801-14809	6.7	25
85	High photocatalytic activity of immobilized TiO2 nanorods on carbonized cotton fibers. *Journal of Hazardous Materials*, **2013**, 263 Pt 2, 659-69	12.8	34
84	Theoretical Graetz Damkhler modeling of an air-breathing microfluidic fuel cell. *Journal of Power Sources*, **2013**, 231, 1-5	8.9	17
83	Enabling high-concentrated fuel operation of fuel cells with microfluidic principles: A feasibility study. *Applied Energy*, **2013**, 112, 1131-1137	10.7	29
82	Air-breathing membraneless laminar flow-based fuel cells: Do they breathe enough oxygen?. *Applied Energy*, **2013**, 104, 400-407	10.7	31
81	Energy and exergy analysis of microfluidic fuel cell. *International Journal of Hydrogen Energy*, **2013**, 38, 6526-6536	6.7	23
80	Synthesis and photocatalytic activity of boron and fluorine codoped TiO2 nanosheets with reactive facets. *Applied Energy*, **2013**, 112, 1190-1197	10.7	31
79	Hollow Carbon Fibers Derived from Natural Cotton as Effective Sorbents for Oil Spill Cleanup. *Industrial & Engineering Chemistry Research*, **2013**, 52, 18251-18261	3.9	78

78	Chemical and transport behaviors in a microfluidic reformer with catalytic-support membrane for efficient hydrogen production and purification. *International Journal of Hydrogen Energy*, **2012**, 37, 2614-2622	6.7	19
77	Laminar flow-based fuel cell working under critical conditions: The effect of parasitic current. *Applied Energy*, **2012**, 90, 87-93	10.7	32
76	Energy analysis of hydrogen and electricity production from aluminum-based processes. *Applied Energy*, **2012**, 90, 100-105	10.7	46
75	Towards orientation-independent performance of membraneless microfluidic fuel cell: Understanding the gravity effects. *Applied Energy*, **2012**, 90, 80-86	10.7	40
74	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	8.9	47
73	Hydrodynamic focusing in microfluidic membraneless fuel cells: Breaking the trade-off between fuel utilization and current density. *International Journal of Hydrogen Energy*, **2011**, 36, 11075-11084	6.7	30
72	Can commonly-used fan-driven air cleaning technologies improve indoor air quality? A literature review. *Atmospheric Environment*, **2011**, 45, 4329-4343	5.3	165
71	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. *Catalysis Today*, **2011**, 175, 310-315	5.3	51
70	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	3	22
69	A computational study of bifunctional oxygen electrode in air-breathing reversible microfluidic fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 9231-9241	6.7	24
68	Density-induced asymmetric pair of Dean vortices and its effects on mass transfer in a curved microchannel with two-layer laminar stream. *Chemical Engineering Journal*, **2011**, 171, 216-223	14.7	16
67	Modeling and analysis of an aluminum–water electrochemical generator for simultaneous production of electricity and hydrogen. *International Journal of Energy Research*, **2011**, 35, 44-51	4.5	8
66	Coating-by-parts method for experimental study of internal mechanisms of water gas shift fuel processor. *International Journal of Energy Research*, **2011**, 35, 31-39	4.5	3
65	Parametric study of a fan-bladed micro-wind turbine. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, **2011**, 225, 1120-1131	1.6	2
64	WO3 Doping Effects on the Photoelectrocatalytic Activity of TiO2 Nanotube Film Prepared by an Anodization Process. *Materials Research Society Symposia Proceedings*, **2010**, 1258, 1		1
63	An efficient bismuth tungstate visible-light-driven photocatalyst for breaking down nitric oxide. *Environmental Science & Technology*, **2010**, 44, 4276-81	10.3	153
62	Modeling of Parasitic Hydrogen Evolution Effects in an Aluminum–Air Cell. *Energy & Fuels*, **2010**, 24, 3748-3753	4.1	17
61	Template-free synthesis of hierarchical porous SnO2. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 499-503	2.3	7

60	Hydrogen production over titania-based photocatalysts. *ChemSusChem*, **2010**, 3, 681-94	8.3	349
59	A review on biodiesel production using catalyzed transesterification. *Applied Energy*, **2010**, 87, 1083-1095	10.7	1626
58	An efficient approach to transient turbulent dispersion modeling by CFD Statistical analysis of a many-puff system. *Fluid Dynamics Research*, **2009**, 41, 035512	1.2	1
57	Electrochemical modeling and parametric study of methane fed solid oxide fuel cells. *Energy Conversion and Management*, **2009**, 50, 268-278	10.6	66
56	Ammonia-fed solid oxide fuel cells for power generation A review. *International Journal of Energy Research*, **2009**, 33, 943-959	4.5	76
55	Integrating chemical kinetics with CFD modeling for autothermal reforming of biogas. *International Journal of Hydrogen Energy*, **2009**, 34, 9076-9086	6.7	32
54	A review on hydrogen production using aluminum and aluminum alloys. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 845-853	16.2	352
53	A review of biomass-derived fuel processors for fuel cell systems. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 1301-1313	16.2	216
52	An overview of emissions trading and its prospects in Hong Kong. *Environmental Science and Policy*, **2009**, 12, 92-101	6.2	20
51	Theoretical and experimental studies of heat transfer with moving phase-change interface in freezing and thawing of porous potting soil. *Journal of Zhejiang University: Science A*, **2009**, 10, 1-6	2.1	3
50	The influence of sintering conditions on the dielectric and piezoelectric properties of PbZrTiO PbMgNbO ceramic tubes. *Journal of Alloys and Compounds*, **2009**, 470, 465-469	5.7	12
49	Energy and exergy analysis of hydrogen production by a proton exchange membrane (PEM) electrolyzer plant. *Energy Conversion and Management*, **2008**, 49, 2748-2756	10.6	259
48	Theoretical analysis of reversible solid oxide fuel cell based on proton-conducting electrolyte. *Journal of Power Sources*, **2008**, 177, 369-375	8.9	46
47	Technological development of hydrogen production by solid oxide electrolyzer cell (SOEC). *International Journal of Hydrogen Energy*, **2008**, 33, 2337-2354	6.7	429
46	Modeling of Electrochemistry and Heat/Mass Transfer in a Tubular Solid Oxide Steam Electrolyzer for Hydrogen Production. *Chemical Engineering and Technology*, **2008**, 31, 1319-1327	2	2
45	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	2.3	46
44	Modeling of methane fed solid oxide fuel cells: Comparison between proton conducting electrolyte and oxygen ion conducting electrolyte. *Journal of Power Sources*, **2008**, 183, 133-142	8.9	54
43	Importance of pressure gradient in solid oxide fuel cell electrodes for modeling study. *Journal of Power Sources*, **2008**, 183, 668-673	8.9	18

42	Electrochemical modeling of ammonia-fed solid oxide fuel cells based on proton conducting electrolyte. *Journal of Power Sources*, **2008**, 183, 687-692	8.9	38
41	Thermodynamic analysis of ammonia fed solid oxide fuel cells: Comparison between proton-conducting electrolyte and oxygen ion-conducting electrolyte. *Journal of Power Sources*, **2008**, 183, 682-686	8.9	68
40	An improved electrochemical model for the NH3 fed proton conducting solid oxide fuel cells at intermediate temperatures. *Journal of Power Sources*, **2008**, 185, 233-240	8.9	35
39	Electrochemical modeling of hydrogen production by proton-conducting solid oxide steam electrolyzer. *International Journal of Hydrogen Energy*, **2008**, 33, 4040-4047	6.7	47
38	Mathematical modeling of ammonia-fed solid oxide fuel cells with different electrolytes. *International Journal of Hydrogen Energy*, **2008**, 33, 5765-5772	6.7	59
37	Design Optimization of Photocatalytic Glass Tubular Honeycomb Reactor for Air Purification **2008**, 441-445		
36	Micro-Scale Modeling of a Functionally Graded Ni-YSZ Anode. *Chemical Engineering and Technology*, **2007**, 30, 587-592	2	19
35	Mathematical Modelling of Proton-Conducting Solid Oxide Fuel Cells and Comparison with Oxygen-Ion-Conducting Counterpart. *Fuel Cells*, **2007**, 7, 269-278	2.9	67
34	Visible-light-assisted photocatalytic degradation of gaseous formaldehyde by parallel-plate reactor coated with Cr ion-implanted TiO2 thin film. *Solar Energy Materials and Solar Cells*, **2007**, 91, 54-61	6.4	52
33	Photocatalytic decolorization of anthraquinonic dye by TiO2 thin film under UVA and visible-light irradiation. *Chemical Engineering Journal*, **2007**, 129, 153-159	14.7	29
32	Theoretical and experimental studies on laser transformation hardening of steel by customized beam. *International Journal of Heat and Mass Transfer*, **2007**, 50, 4600-4606	4.9	36
31	Parametric study of solid oxide steam electrolyzer for hydrogen production. *International Journal of Hydrogen Energy*, **2007**, 32, 2305-2313	6.7	124
30	A review on reforming bio-ethanol for hydrogen production. *International Journal of Hydrogen Energy*, **2007**, 32, 3238-3247	6.7	941
29	Energy and exergy analysis of hydrogen production by solid oxide steam electrolyzer plant. *International Journal of Hydrogen Energy*, **2007**, 32, 4648-4660	6.7	122
28	Fluid dynamics and heat transfer in cold water thawing. *Journal of Food Engineering*, **2007**, 78, 1221-1227	6	13
27	A review and recent developments in photocatalytic water-splitting using TiO2 for hydrogen production. *Renewable and Sustainable Energy Reviews*, **2007**, 11, 401-425	16.2	3189
26	Parametric study of solid oxide fuel cell performance. *Energy Conversion and Management*, **2007**, 48, 1525-1535	10.6	209
25	Mathematical modeling of the coupled transport and electrochemical reactions in solid oxide steam electrolyzer for hydrogen production. *Electrochimica Acta*, **2007**, 52, 6707-6718	6.7	71

24	Micro-scale modelling of solid oxide fuel cells with micro-structurally graded electrodes. *Journal of Power Sources*, **2007**, 168, 369-378	8.9	100
23	Potential of renewable hydrogen production for energy supply in Hong Kong. *International Journal of Hydrogen Energy*, **2006**, 31, 1401-1412	6.7	192
22	Characteristics of air exchange in a street canyon with ground heating. *Atmospheric Environment*, **2006**, 40, 6396-6409	5.3	107
21	An Electrochemical Model of a Solid Oxide Steam Electrolyzer for Hydrogen Production. *Chemical Engineering and Technology*, **2006**, 29, 636-642	2	64
20	CFD Analysis of the Performance of a Local Exhaust Ventilation System in a Hospital Ward. *Indoor and Built Environment*, **2006**, 15, 257-271	1.8	12
19	An overview of hydrogen production from biomass. *Fuel Processing Technology*, **2006**, 87, 461-472	7.2	858
18	A modeling study on concentration overpotentials of a reversible solid oxide fuel cell. *Journal of Power Sources*, **2006**, 163, 460-466	8.9	119
17	Parallel-plate solar photocatalytic reactor for air purification: Semi-empirical correlation, modeling, and optimization. *Solar Energy*, **2006**, 80, 949-955	6.8	9
16	An analytical study of the porosity effect on dye-sensitized solar cell performance. *Solar Energy Materials and Solar Cells*, **2006**, 90, 1331-1344	6.4	104
15	Theoretical modeling of TiO2/TCO interfacial effect on dye-sensitized solar cell performance. *Solar Energy Materials and Solar Cells*, **2006**, 90, 2000-2009	6.4	71
14	Control and management of hospital indoor air quality. *Medical Science Monitor*, **2006**, 12, SR17-23	3.2	44
13	Occupational exposure to volatile organic compounds and mitigation by push-pull local exhaust ventilation in printing plants. *Journal of Occupational Health*, **2005**, 47, 540-7	2.3	22
12	Prediction of transient turbulent dispersion by CFD□tatistical hybrid modeling method. *Atmospheric Environment*, **2005**, 39, 6345-6351	5.3	4
11	Corrosion behaviors of nanocrystalline and conventional polycrystalline copper. *Journal of Materials Science*, **2005**, 40, 1019-1022	4.3	26
10	Local Exhaust Ventilation for Infection Control in Hospitals. *HKIE Transactions*, **2005**, 12, 27-32	2.9	1
9	Theoretical study of heat transfer with moving phase-change interface in thawing of frozen food. *Journal Physics D: Applied Physics*, **2005**, 38, 477-482	3	12
8	Solar photocatalytic degradation of gaseous formaldehyde by sol□gel TiO2 thin film for enhancement of indoor air quality. *Solar Energy*, **2004**, 77, 129-135	6.8	63
7	Phase Change in a Cylinder and a Cylindrical Shell Heated With an Axisymmetric Front Moving in the Axial Direction. *Journal of Heat Transfer*, **2001**, 123, 476-485	1.8	10

6	Effect of refrigerant charge on the performance of air conditioning systems. *International Journal of Energy Research*, **2001**, 25, 741-750	4.5	17
5	Phase-change heat transfer in laser transformation hardening by moving Gaussian rectangular heat source. *Journal Physics D: Applied Physics*, **2001**, 34, 3434-3441	3	20
4	Experimental analysis of solar thermal integrated MD system for cogeneration of drinking water and hot water for single family villa in Dubai using flat plate and evacuated tube solar collectors92, 46-59		2
3	Advancement of Bismuth-Based Materials for Electrocatalytic and Photo(electro)catalytic Ammonia Synthesis. *Advanced Functional Materials*,2106713	15.6	12
2	A paper-based self-pumping microfluidic fuel cell stack with a novel vertical structure. *International Journal of Energy Research*,	4.5	2
1	Ultrastable bimetallic Fe2Mo for efficient oxygen reduction reaction in pH-universal applications. *Nano Research*,1	10	1