Jaeyoung Lee

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.

232
papers
7,257
citations
46
h-index
g-index

8,082
ext. papers
ext. citations
6.4
avg, IF
L-index

#	Paper	IF	Citations
232	High-performance capacitive deionization electrodes through regulated electrodeposition of manganese oxide and nickel-manganese oxide/hydroxide onto activated carbon. <i>Separation and Purification Technology</i> , 2022 , 280, 119873	8.3	2
231	Syngas production for Fischer-Tropsch process via co-electrolytic processes of CO2 reduction and NH3 oxidation. <i>Chemical Engineering Journal</i> , 2022 , 430, 132563	14.7	2
230	Steam activation of Fe-N-C catalyst for advanced power performance of alkaline hydrazine fuel cells. <i>Journal of Energy Chemistry</i> , 2022 , 64, 276-285	12	4
229	Biomass-derived bifunctional electrocatalysts for oxygen reduction and evolution reaction: A review. <i>Journal of Energy Chemistry</i> , 2022 , 65, 149-172	12	16
228	Nanostructured cobalt-based metal-organic framework/cadmium sulfide electrocatalyst for enhanced oxygen evolution reaction and anion exchange membrane-based water electrolysis: Synergistic effect. <i>Journal of Power Sources</i> , 2022 , 527, 231151	8.9	2
227	Boosting the oxygen evolution reaction performance of wrinkled Mn(OH)2 via conductive activation with a carbon binder. <i>Journal of Energy Chemistry</i> , 2022 , 71, 580-587	12	1
226	Rapid determination of lithium-ion battery degradation: High C-rate LAM and calculated limiting LLI. <i>Journal of Energy Chemistry</i> , 2021 , 67, 663-663	12	3
225	Carbon-Based Capacitive Deionization Electrodes: Development Techniques and its Influence on Electrode Properties. <i>Chemical Record</i> , 2021 , 21, 820-840	6.6	6
224	Contribution of Interstitial Boron in a Boron-Incorporated Palladium Catalyst Toward Formate Oxidation in an Alkaline Direct Formate Fuel Cell. <i>ACS Catalysis</i> , 2021 , 11, 4722-4729	13.1	11
223	Formation of 1-Butanol from CO2 without *CO Dimerization on a Phosphorus-Rich Copper Cathode. ACS Energy Letters, 2021 , 6, 2090-2095	20.1	8
222	Crusty-Structured [email[protected] Nanoparticles as Anode Catalysts in Alkaline Fuel Cells. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8145-8153	5.6	1
221	Improved electrosorption kinetics in meso/microporous carbon composite electrode for swift salt removal. <i>Catalysis Today</i> , 2021 , 359, 133-140	5.3	4
220	The effect of morphological difference and hydride incorporation on the activity of Pd/C catalysts in direct alkaline formate fuel cell. <i>Catalysis Today</i> , 2021 , 359, 28-34	5.3	6
219	Improved Redox Reaction of Lithium Polysulfides on the Interfacial Boundary of Polar CoC O as a Polysulfide Catenator for a High-Capacity Lithium-Sulfur Battery. <i>ChemSusChem</i> , 2021 , 14, 876-883	8.3	7
218	In situ demonstration of anodic interface degradation during water electrolysis: Corrosion and passivation. <i>Electrochimica Acta</i> , 2021 , 365, 137276	6.7	5
217	Extensive Active-Site Formation in Trirutile CoSb2O6 by Oxygen Vacancy for Oxygen Evolution Reaction in Anion Exchange Membrane Water Splitting. <i>ACS Energy Letters</i> , 2021 , 6, 364-370	20.1	23
216	Dischargeable nickel matrix charges iron species for oxygen evolution electrocatalysis. <i>Electrochimica Acta</i> , 2021 , 386, 138401	6.7	2

215	Rhodium-molybdenum oxide electrocatalyst with dual active sites for electrochemical ammonia synthesis under neutral pH condition. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115157	4.1	1
214	Improved Redox Reaction of Lithium Polysulfides on the Interfacial Boundary of Polar CoC O as a Polysulfide Catenator for a High-Capacity Lithium-Sulfur Battery. <i>ChemSusChem</i> , 2021 , 14, 757	8.3	1
213	Moderate oxophilic CoFe in carbon nanofiber for the oxygen evolution reaction in anion exchange membrane water electrolysis. <i>Electrochimica Acta</i> , 2020 , 353, 136521	6.7	17
212	Solid polymer electrolytes from double-comb Poly(methylhydrosiloxane) based on quaternary ammonium moiety-containing crosslinking system for Li/S battery. <i>Journal of Power Sources</i> , 2020 , 450, 227690	8.9	9
211	Enhanced corrosion tolerance and highly durable ORR activity by low Pt electrocatalyst on unique pore structured CNF in PEM fuel cell. <i>Electrochimica Acta</i> , 2020 , 348, 136346	6.7	21
21 0	Optimized electrode structure for performance and mechanical stability in a direct formate fuel cell using cation ionomer. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1899-1907	5.8	5
209	Looking Back and Looking Ahead in Electrochemical Reduction of CO. Chemical Record, 2020, 20, 89-10	16.6	6
208	The Role of Lone-Pair Electrons in Pt-N Interactions for the Oxygen Reduction Reaction in Polymer Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2020 , 13, 1751-1758	8.3	7
207	Narrow size distribution of Pt nanoparticles covered by an S-doped carbon layer for an improved oxygen reduction reaction in fuel cells. <i>Journal of Power Sources</i> , 2020 , 450, 227650	8.9	17
206	Iridium oxide fabrication and application: A review. <i>Journal of Energy Chemistry</i> , 2020 , 46, 152-172	12	26
205	Crosslinked poly(allyl glycidyl ether) with pendant nitrile groups as solid polymer electrolytes for LiB batteries. <i>Electrochimica Acta</i> , 2020 , 362, 137141	6.7	3
204	Au on highly hydrophobic carbon substrate for improved selective CO production from CO2 in gas-phase electrolytic cell. <i>Catalysis Today</i> , 2020 , 355, 340-346	5.3	11
203	The Role of Lone-Pair Electrons in Pt-N Interactions for the Oxygen Reduction Reaction in Polymer Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2020 , 13, 1660	8.3	
202	Optimistic performance of carbon-free hydrazine fuel cells based on controlled electrode structure and water management. <i>Journal of Energy Chemistry</i> , 2020 , 51, 175-181	12	10
201	Experimental and Density Functional Theory Corroborated Optimization of Durable Metal Embedded Carbon Nanofiber for Oxygen Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3109-3114	6.4	11
200	Reduction of Iridium Loading to the Minimum Level Required for Water Oxidation Electrocatalysis without Sacrificing the Electrochemical Stability. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	13
199	Recent advances in water-splitting electrocatalysts based on manganese oxide. <i>Carbon Resources Conversion</i> , 2019 , 2, 242-255	4.7	13
198	Dehydration Pathway for the Dissociation of Gas-Phase Formic Acid on Pt(111) Surface Observed via Ambient-Pressure XPS. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2064-2069	3.8	13

197	Al-incorporation into Li7La3Zr2O12 solid electrolyte keeping stabilized cubic phase for all-solid-state Li batteries. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1501-1508	12	30
196	Enhanced Capacitive Deionization of Graphene Nanoplatelet/Activated Carbon Composite Electrode. <i>ECS Transactions</i> , 2018 , 85, 1321-1327	1	3
195	Improved water management of Pt/C cathode modified by graphitized carbon nanofiber in proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2018 , 399, 350-356	8.9	25
194	Ethylene Selectivity in CO Electroreduction when using Cu Oxides: An In Situ ATR-SEIRAS Study. <i>ChemElectroChem</i> , 2018 , 5, 558-564	4.3	17
193	Adsorbed Hydrogen as a Site-Occupying Species in the Electrocatalytic Oxidation of Formate on Pd/C in Alkaline Medium. <i>Journal of the Electrochemical Society</i> , 2018 , 165, J3266-J3270	3.9	9
192	Electrocatalytic Activity of Carbon in N-Doped Graphene to Achieve High-Energy Density Liß Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23045-23052	3.8	13
191	Peptide-Programmable Nanoparticle Superstructures with Tailored Electrocatalytic Activity. <i>ACS Nano</i> , 2018 , 12, 6554-6562	16.7	12
190	The Effect of Synthesis Temperature on Pd-H Catalyst Structure for Alkaline Direct Formate Fuel Cells. <i>ECS Transactions</i> , 2018 , 85, 149-158	1	7
189	Catalytically active highly metallic palladium on carbon support for oxidation of HCOO []Catalysis Today, 2017 , 295, 26-31	5.3	22
188	Tree-Bark-Shaped N-Doped Porous Carbon Anode for Hydrazine Fuel Cells. <i>Angewandte Chemie</i> , 2017 , 129, 13698-13701	3.6	4
187	Tree-Bark-Shaped N-Doped Porous Carbon Anode for Hydrazine Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13513-13516	16.4	23
186	Anion dependent CO/H 2 production ratio from CO 2 reduction on Au electro-catalyst. <i>Catalysis Today</i> , 2017 , 295, 82-88	5.3	23
185	A graphitic edge plane rich meso-porous carbon anode for alkaline water electrolysis. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21987-21995	3.6	8
184	Importance of Agtu Biphasic Boundaries for Selective Electrochemical Reduction of CO2 to Ethanol. <i>ACS Catalysis</i> , 2017 , 7, 8594-8604	13.1	192
183	Enhancement of catalytic activity of a programmed gold nanoparticle superstructure modulated by supramolecular protein assembly. <i>Catalysis Today</i> , 2017 , 295, 95-101	5.3	3
182	Origin of peculiar electrochemical phenomena in direct carbon fuel cells. <i>Chemical Engineering Journal</i> , 2017 , 327, 1163-1175	14.7	3
181	Meticulous insight on the state of fuel in a solid oxide carbon fuel cell. <i>Chemical Engineering Journal</i> , 2017 , 308, 974-979	14.7	5
180	Bulk pH contribution to CO/HCOO[production from CO2 on oxygen-evacuated Cu2O electrocatalyst. <i>Catalysis Today</i> , 2017 , 288, 11-17	5.3	11

(2016-2017)

Induced changes of Pt/C in activity and durability through heat-treatment for oxygen reduction reaction in acidic medium. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22830-22840	6.7	5
Ameliorated performance in a direct carbon fuel cell using Sn mediator on Ni\(\mathbb{I}\)SZ anode surface. <i>Catalysis Today</i> , 2016 , 260, 158-164	5.3	8
Peptide-based bimetallic nanostructures with tailored surface compositions and their oxygen electroreduction activities. <i>CrystEngComm</i> , 2016 , 18, 6024-6028	3.3	8
Dip-coating synthesis of high-surface area nanostructured FeB for direct usage as anode in metal/metalloid-air battery. <i>Current Applied Physics</i> , 2016 , 16, 1075-1080	2.6	13
Pore-filled anion-exchange membranes for electrochemical energy conversion applications. <i>Electrochimica Acta</i> , 2016 , 222, 212-220	6.7	19
Influence of the mediating behaviour of Sn according to its particle size on a Ni/yttria-stabilised zirconia porous anode structure in a direct carbon fuel cell. <i>RSC Advances</i> , 2016 , 6, 109036-109044	3.7	3
Electrode Architecture in Galvanic and Electrolytic Energy Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4870-80	16.4	16
Metal-Derived Mesoporous Structure of a Carbon Nanofiber Electrocatalyst for Improved Oxygen Evolution Reaction in Alkaline Water Electrolysis. <i>ChemElectroChem</i> , 2016 , 3, 1720-1724	4.3	11
Electro-oxidation of mixed reactants of ethanol and formate on Pd/C in alkaline fuel cells. <i>Journal of Energy Chemistry</i> , 2016 , 25, 683-690	12	17
Positively charged carbon electrocatalyst for enhanced power performance of L-ascorbic acid fuel cells. <i>Journal of Energy Chemistry</i> , 2016 , 25, 793-797	12	11
High-Power-Density Semiconductor Air Batteries Based on P-Type Germanium with Different Crystal Orientations. <i>ChemElectroChem</i> , 2016 , 3, 242-246	4.3	7
Atomic layer deposition of ultrathin layered TiO2 on Pt/C cathode catalyst for extended durability in polymer electrolyte fuel cells. <i>Journal of Energy Chemistry</i> , 2016 , 25, 258-264	12	18
SPPO pore-filled composite membranes with electrically aligned ion channels via a lab-scale continuous caster for fuel cells: An optimal DC electric field strength-IEC relationship. <i>Journal of Membrane Science</i> , 2016 , 501, 15-23	9.6	14
Surface analysis and dynamics. <i>Catalysis Today</i> , 2016 , 260, 1-2	5.3	2
Development of high quality Fe3O4/rGO composited electrode for low energy water treatment. Journal of Energy Chemistry, 2016 , 25, 354-360	12	18
Effect of transition metal induced pore structure on oxygen reduction reaction of electrospun fibrous carbon. <i>Catalysis Today</i> , 2016 , 260, 82-88	5.3	28
Polydimethylsiloxane treated cathode catalyst layer to prolong hydrogen fuel cell lifetime. <i>Catalysis Today</i> , 2016 , 262, 155-160	5.3	18
Competitiveness of Formic Acid Fuel Cells: In Comparison with Methanol. <i>Applied Chemistry for Engineering</i> , 2016 , 27, 123-127		4
	reaction in acidic medium. International Journal of Hydrogen Energy, 2017, 42, 22830-22840 Ameliorated performance in a direct carbon fuel cell using Sn mediator on NiNSZ anode surface. Catalysis Today, 2016, 260, 158-164 Peptide-based bimetallic nanostructures with tailored surface compositions and their oxygen electroreduction activities. CrystEngComm, 2016, 18, 6024-6028 Dip-coating synthesis of high-surface area nanostructured FeB for direct usage as anode in metal/metalloid-air battery. Current Applied Physics, 2016, 16, 1075-1080 Pore-filled anion-exchange membranes for electrochemical energy conversion applications. Electrochimica Acta, 2016, 222, 212-220 Influence of the mediating behaviour of Sn according to its particle size on a Ni/yttria-stabilised zirconia porous anode structure in a direct carbon fuel cell. RSC Advances, 2016, 6, 109036-109044 Electrode Architecture in Galvanic and Electrolytic Energy Cells. Angewandte Chemie - International Edition, 2016, 55, 4870-80 Metal-Derived Mesoporous Structure of a Carbon Nanofiber Electrocatalyst for Improved Oxygen Evolution Reaction in Alkaline Water Electrolysis. ChemElectroChem, 2016, 3, 1720-1724 Electro-oxidation of mixed reactants of ethanol and formate on Pd/C in alkaline fuel cells. Journal of Energy Chemistry, 2016, 25, 683-690 Positively charged carbon electrocatalyst for enhanced power performance of L-ascorbic acid fuel cells. Journal of Energy Chemistry, 2016, 25, 793-797 High-Power-Density Semiconductoralin Batteries Based on P-Type Germanium with Different Crystal Orientations. ChemElectroChem, 2016, 3, 242-246 Atomic layer deposition of ultrathin layered TiO2 on Pt/C cathode catalyst for extended durability in polymer electrolyte fuel cells. Journal of Energy Chemistry, 2016, 25, 258-264 SPPO pore-filled composite membranes with electrically aligned ion channels via a lab-scale continuous caster for fuel cells. An optimal DC electric field strength-IEC relationship. Journal of Membrane Science, 2016, 501, 15-23 Surface analy	Ameliorated performance in a direct carbon fuel cell using Sn mediator on NiNSZ anode surface. Catalysis Today, 2016, 260, 158-164 Speptide-based bimetallic nanostructures with tailored surface compositions and their oxygen electroreduction activities. CrystEngComm, 2016, 18, 6024-6028 Dip-coating synthesis of high-surface area nanostructured FeB for direct usage as anode in metal/metalloid-air battery. Current Applied Physics, 2016, 16, 1075-1080 Pore-filled anion-exchange membranes for electrochemical energy conversion applications. Electrochimica Acta, 2016, 222, 212-220 Influence of the mediating behaviour of Sn according to its particle size on a Ni/yttria-stabilised zirconia porous anode structure in a direct carbon fuel cell. RSC Advances, 2016, 6, 109036-109044 Special Derived Mesoporous Structure of a Carbon Nanofiber Electrocatalyst for Improved Oxygen Evolution Reaction in Alkaline Water Electrolysis. ChemElectroChem, 2016, 3, 1720-1724 Electro-oxidation of mixed reactants of ethanol and formate on Pd/C in alkaline fuel cells. Journal of Energy Chemistry, 2016, 25, 683-690 Positively charged carbon electrocatalyst for enhanced power performance of L-ascorbic acid fuel cells. Journal of Energy Chemistry, 2016, 25, 793-797 High-Power-Density Semiconductor8ir Batteries Based on P-Type Germanium with Different Crystal Orientations. ChemElectroChem, 2016, 3, 242-246 Atomic layer deposition of ultrathin layered TiO2 on Pt/C cathode catalyst for extended durability in polymer electrolyte fuel cells. Journal of Energy Chemistry, 2016, 25, 793-797 Byp Opore-filled composite membranes with electrically aligned ion channels via a lab-scale continuous caster for fuel cells: An optimal DC electric field strength-IEC relationship. Journal of Membrane Science, 2016, 501, 15-23 Surface analysis and dynamics. Catalysis Today, 2016, 260, 1-2 Sauface analysis and dynamics. Catalysis Today, 2016, 260, 82-88 Polydimethylsiloxane treated cathode catalyst layer to prolong hydrogen fuel cell lifetime. Catalys

161	Current Status of Thermoelectric Power Generation Technology. <i>Applied Chemistry for Engineering</i> , 2016 , 27, 353-357		1
160	Electrode Build-Up of Reducible Metal Composites toward Achievable Electrochemical Conversion of Carbon Dioxide. <i>ChemSusChem</i> , 2016 , 9, 333-44	8.3	63
159	Alkaline Ammonia Electrolysis on Electrodeposited Platinum for Controllable Hydrogen Production. <i>ChemSusChem</i> , 2016 , 9, 403-8	8.3	44
158	Elektrodenarchitektur in galvanischen und elektrolytischen Energiezellen. <i>Angewandte Chemie</i> , 2016 , 128, 4952-4962	3.6	
157	Observation of in situ oxidation dynamics of vanadium thin film with ambient pressure X-ray photoemission spectroscopy. <i>Journal of Applied Physics</i> , 2016 , 120, 205305	2.5	10
156	Nitrogen-Deficient ORR Active Sites Formation by Iron-Assisted Water Vapor Activation of Electrospun Carbon Nanofibers. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7705-7714	3.8	43
155	Porous and Conductive Fibrous Carbon for Enhanced Electrocatalytic Oxygen Reduction Reaction in Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22342-22348	3.8	11
154	Improvement of water softening efficiency in capacitive deionization by ultra purification process of reduced graphene oxide. <i>Current Applied Physics</i> , 2015 , 15, 1397-1401	2.6	23
153	Direct power generation from waste coffee grounds in a biomass fuel cell. <i>Journal of Power Sources</i> , 2015 , 296, 433-439	8.9	32
152	An optimized mild reduction route towards excellent cobaltgraphene catalysts for water oxidation. <i>RSC Advances</i> , 2015 , 5, 64858-64864	3.7	2
151	Ultrahigh purification in concentrated NaOH by electrowinning for solar cell application. <i>Separation and Purification Technology</i> , 2015 , 145, 24-28	8.3	1
150	Influence of Solution pH on Pt Anode Catalyst in Direct Formic Acid Fuel Cells. <i>ACS Catalysis</i> , 2015 , 5, 6848-6851	13.1	20
149	Enhanced electrical and mass transfer characteristics of acid-treated carbon nanotubes for capacitive deionization. <i>Current Applied Physics</i> , 2015 , 15, 1539-1544	2.6	20
148	High-temperature liquid Sn-air energy storage cell. <i>Journal of Energy Chemistry</i> , 2015 , 24, 614-619	12	7
147	Sustainable production of formic acid by electrolytic reduction of gaseous carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3029-3034	13	78
146	Electrocatalytic Oxidation of Formic Acid: Closing the Gap Between Fundamental Study and Technical Applications. <i>Electrocatalysis</i> , 2015 , 6, 20-32	2.7	21
145	Insights into an autonomously formed oxygen-evacuated Cu2O electrode for the selective production of C2H4 from CO2. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 824-30	3.6	150
144	Improvement of Energy Capacity with Vitamin C Treated Dual-Layered Graphene-Sulfur Cathodes in Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2015 , 8, 2754	8.3	3

(2014-2015)

143	Electrocatalytic Production of C3-C4 Compounds by Conversion of CO2 on a Chloride-Induced Bi-Phasic Cu2O-Cu Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14701-5	16.4	185
142	Designing a Highly Active Metal-Free Oxygen Reduction Catalyst in Membrane Electrode Assemblies for Alkaline Fuel Cells: Effects of Pore Size and Doping-Site Position. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9230-4	16.4	105
141	Designing a Highly Active Metal-Free Oxygen Reduction Catalyst in Membrane Electrode Assemblies for Alkaline Fuel Cells: Effects of Pore Size and Doping-Site Position. <i>Angewandte Chemie</i> , 2015 , 127, 9362-9366	3.6	9
140	Electrocatalytic Production of C3-C4 Compounds by Conversion of CO2 on a Chloride-Induced Bi-Phasic Cu2O-Cu Catalyst. <i>Angewandte Chemie</i> , 2015 , 127, 14914-14918	3.6	101
139	Improvement of Energy Capacity with Vitamin C Treated Dual-Layered Graphene-Sulfur Cathodes in Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2015 , 8, 2883-91	8.3	19
138	Diagnosis of the measurement inconsistencies of carbon-based electrocatalysts for the oxygen reduction reaction in alkaline media. <i>RSC Advances</i> , 2015 , 5, 1571-1580	3.7	32
137	Electrochemical codeposition of Pt/graphene catalyst for improved methanol oxidation. <i>Current Applied Physics</i> , 2015 , 15, 219-225	2.6	31
136	Alkaline CO2 Electrolysis toward Selective and Continuous HCOOIProduction over SnO2 Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4884-4890	3.8	106
135	Controlled electrochemical etching of nanoporous Si anodes and its discharge behavior in alkaline Si-air batteries. <i>ACS Applied Materials & ACS ACS APPLIED & ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	16
134	III-V Tandem, CuInGa(S,Se)2, and Cu2ZnSn(S,Se)4 Compound Semiconductor Thin Film Solar Cells. <i>Applied Chemistry for Engineering</i> , 2015 , 26, 526-532		
133	Excavated Fe-N-C sites for enhanced electrocatalytic activity in the oxygen reduction reaction. <i>ChemSusChem</i> , 2014 , 7, 1289-94	8.3	33
132	The influence of a fibrous carbon envelope on the formation of CoFe nanoparticles for durable electrocatalytic oxygen evolution. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13807-13	3.6	37
131	Quasi-perpetual discharge behaviour in p-type Ge-air batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22487-94	3.6	16
130	Quasi-photonic crystal effect of TiCl/electrolyte matrix in unipolar dye-absorber devices. <i>ACS Applied Materials & District Applied & Distr</i>	9.5	5
129	Enhancing Role of Nickel in the Nickel Palladium Bilayer for Electrocatalytic Oxidation of Ethanol in Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22473-22478	3.8	31
128	in-situ electrochemical extended X-ray absorption fine structure spectroscopy study on the reactivation of Pd electrocatalyst in formic acid oxidation. <i>Electrochimica Acta</i> , 2014 , 140, 525-528	6.7	6
127	Controlled water flooding of polymer electrolyte fuel cells applying superhydrophobic gas diffusion layer. <i>Current Applied Physics</i> , 2014 , 14, 1374-1379	2.6	16
126	Functionalized graphene-based cathode for highly reversible lithium-sulfur batteries. <i>ChemSusChem</i> , 2014 , 7, 1265-73	8.3	46

125	Facile preparation of SnC2O4 nanowires for anode materials of a Li ion battery. <i>Current Applied Physics</i> , 2014 , 14, 892-896	2.6	7
124	Gently reduced graphene oxide incorporated into cobalt oxalate rods as bifunctional oxygen electrocatalyst. <i>Electrochimica Acta</i> , 2014 , 140, 404-411	6.7	34
123	Electrocatalytic oxygen evolution reaction at a FeNi composite on a carbon nanofiber matrix in alkaline media. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 891-895	11.3	26
122	Durable power performance of a direct ash-free coal fuel cell. <i>Electrochimica Acta</i> , 2014 , 115, 511-517	6.7	52
121	High Energy Density Germanium Anodes for Next Generation Lithium Ion Batteries. <i>Applied Chemistry for Engineering</i> , 2014 , 25, 1-13		14
120	Carbon Electrodes in Capacitive Deionization Process. <i>Applied Chemistry for Engineering</i> , 2014 , 25, 346-	351	2
119	Oxygen electrocatalysis in chemical energy conversion and storage technologies. <i>Current Applied Physics</i> , 2013 , 13, 309-321	2.6	148
118	Carbon dioxide reforming of methane over mesoporous Ni/SiO2. Fuel, 2013, 112, 111-116	7.1	38
117	Influence of acid/base co-catalyst on the photoelectrochemical properties of TiO2 thin films in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 107, 619-623	6.7	4
116	Pyrolytic carbon infiltrated nanoporous alumina reducing contact resistance of aluminum/carbon interface. <i>Electrochimica Acta</i> , 2013 , 89, 173-179	6.7	6
115	End-group cross-linked large-size composite membranes via a lab-made continuous caster: enhanced oxidative stability and scale-up feasibility in a 50 cm2 single-cell and a 220 W class 5-cell PEFC stack. <i>RSC Advances</i> , 2013 , 3, 24154	3.7	3
114	Fe B catalyst fabricated by hybrid capacitive adsorption@hemical reduction method and its application for hydrogen production from NaBH4 solution. <i>Catalysis Today</i> , 2013 , 216, 240-245	5.3	27
113	An etched nanoporous Ge anode in a novel metal-air energy conversion cell. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6333-8	3.6	17
112	Enhanced electrocatalysis of PtRu onto graphene separated by Vulcan carbon spacer. <i>Journal of Power Sources</i> , 2013 , 222, 261-266	8.9	45
111	Ultrafast and stable hydrogen generation from sodium borohydride in methanol and water over Fe B nanoparticles. <i>Journal of Power Sources</i> , 2013 , 243, 444-450	8.9	89
110	Interfacial Charge-Transfer Loss in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2734-2739	3.8	14
109	Enhanced reversible capacity of Li-S battery cathode based on graphene oxide. <i>Journal of Energy Chemistry</i> , 2013 , 22, 336-340	12	29
108	On the Origin of Electrocatalytic Oxygen Reduction Reaction on Electrospun Nitrogen©arbon Species. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11619-11624	3.8	108

(2011-2013)

107	Self-Organized One-Dimensional Cobalt Compound Nanostructures from CoC2O4 for Superior Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23712-23715	3.8	24
106	Open circuit interaction of borohydride with oxidized platinum surfaces. <i>Electrochemistry Communications</i> , 2012 , 16, 107-109	5.1	8
105	Clean hydrogen production from methanol water solutions via power-saved electrolytic reforming process. <i>Journal of Power Sources</i> , 2012 , 198, 218-222	8.9	51
104	Effect of thermal treatment on the aluminum hydroxide nanofibers synthesized by electrolysis of Al plates. <i>Microelectronic Engineering</i> , 2012 , 89, 89-91	2.5	10
103	Comparable mono and bipolar connection of capacitive deionization stack in NaCl treatment. Journal of Industrial and Engineering Chemistry, 2012, 18, 763-766	6.3	16
102	Atomic-layer-deposited TiO2 on cathode gas diffusion layer for low humidity operation in hydrogen fuel cells. <i>Electrochemistry Communications</i> , 2012 , 24, 108-111	5.1	21
101	Enhanced Seebeck Coefficients of Thermoelectric Bi2Te3 Nanowires as a Result of an Optimized Annealing Process. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19512-19516	3.8	24
100	Nanoparticle-enhanced surface plasmon resonance detection of proteins at attomolar concentrations: comparing different nanoparticle shapes and sizes. <i>Analytical Chemistry</i> , 2012 , 84, 1702	2- 7 .8	134
99	High-Density Nanoporous Structures for Enhanced Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2915-2918	3.8	4
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