

Jinwoo 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.

248
papers

19,962
citations

74
h-index

135
g-index

265
ext. papers

21,971
ext. citations

10.6
avg, IF

7
L-index

#	Paper	IF	Citations
248	Surface Conversion Derived Core-Shell Nanostructures of Co Particles@RuCo Alloy for Superior Hydrogen Evolution in Alkali and Seawater. <i>Applied Catalysis B: Environmental</i> , 2022 , 121554	21.8	3
247	Recent advances in non-precious group metal-based catalysts for water electrolysis and beyond. <i>Journal of Materials Chemistry A</i> , 2021 , 10, 50-88	13	4
246	Activation of Inert Copper for Significantly Enhanced Hydrogen Evolution Behaviors by Trace Ruthenium Doping. <i>Nano Energy</i> , 2021 , 106763	17.1	5
245	Effects of functional supports on efficiency and stability of atomically dispersed noble-metal electrocatalysts. <i>EnergyChem</i> , 2021 , 3, 100054	36.9	8
244	Design of grain boundary enriched bimetallic borides for enhanced hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 405, 126977	14.7	22
243	Ultrathin and Bifunctional Polymer-Nanolayer-Embedded Separator to Simultaneously Alleviate Li Dendrite Growth and Polysulfide Crossover in LiS Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 611-622	6.1	8
242	A biopolymer-based functional separator for stable Li metal batteries with an additive-free commercial electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7774-7781	13	7
241	Vanadium oxide bronzes as cathode active materials for non-lithium-based batteries. <i>CrystEngComm</i> , 2021 , 23, 5267-5283	3.3	1
240	Biomass-Derived P, N Self-Doped Hard Carbon as Bifunctional Oxygen Electrocatalyst and Anode Material for Seawater Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2010882	15.6	16
239	Polymer Interface-Dependent Morphological Transition toward Two-Dimensional Porous Inorganic Nanocoins as an Ultrathin Multifunctional Layer for Stable Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15644-15652	16.4	6
238	Structure engineering defective and mass transfer-enhanced RuO ₂ nanosheets for proton exchange membrane water electrolyzer. <i>Nano Energy</i> , 2021 , 88, 106276	17.1	14
237	Spinodal decomposition: a new approach to hierarchically porous inorganic materials for energy storage. <i>National Science Review</i> , 2020 , 7, 1635-1637	10.8	9
236	Mesoporous carbon host material for stable lithium metal anode. <i>Nanoscale</i> , 2020 , 12, 11818-11824	7.7	28
235	Compressive Properties of Nanoporous Gold Through Nanoindentation: An Analytical Approach Based on the Expanding Cavity Model. <i>Metals and Materials International</i> , 2020 , 27, 3787	2.4	1
234	Solid-state conversion of metal oleate precursors for the preparation of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ as cathode material for lithium-ion batteries. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1258-1265	2.8	4
233	Interaction Mediator Assisted Synthesis of Mesoporous Molybdenum Carbide: Mo-Valence State Adjustment for Optimizing Hydrogen Evolution. <i>ACS Nano</i> , 2020 , 14, 4988-4999	16.7	50
232	Plasma-Assisted Catalytic Effects of TiO ₂ /Macroporous SiO ₂ on the Synthesis of Light Hydrocarbons from Methane. <i>ChemCatChem</i> , 2020 , 12, 5067-5075	5.2	0

231	Selective electrocatalysis imparted by metal-insulator transition for durability enhancement of automotive fuel cells. <i>Nature Catalysis</i> , 2020 , 3, 639-648	36.5	32
230	Simultaneous Suppression of Shuttle Effect and Lithium Dendrite Growth by Lightweight Bifunctional Separator for LiS Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2643-2652	6.1	16
229	Polymer Interfacial Self-Assembly Guided Two-Dimensional Engineering of Hierarchically Porous Carbon Nanosheets. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9250-9257	16.4	58
228	A small-strain niobium nitride anode with ordered mesopores for ultra-stable potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3119-3127	13	19
227	Metal-free cathodic catalyst with nitrogen- and phosphorus-doped ordered mesoporous carbon (NPOMC) for microbial fuel cells. <i>Journal of Power Sources</i> , 2020 , 451, 227816	8.9	25
226	Transformation of carbon dioxide into carbon nanotubes for enhanced ion transport and energy storage. <i>Nanoscale</i> , 2020 , 12, 7822-7833	7.7	15
225	Heme Cofactor-Resembling Fe ^{II} Single Site Embedded Graphene as Nanozymes to Selectively Detect H ₂ O ₂ with High Sensitivity. <i>Advanced Functional Materials</i> , 2020 , 30, 1905410	15.6	99
224	Self color-changing ordered mesoporous ceria for reagent-free colorimetric biosensing. <i>Nanoscale</i> , 2020 , 12, 1419-1424	7.7	15
223	Crowding and confinement effects on enzyme stability in mesoporous silicas. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 118-126	7.9	7
222	Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 420-429	13.1	18
221	A review on recent approaches for designing the SEI layer on sodium metal anodes. <i>Materials Advances</i> , 2020 , 1, 3143-3166	3.3	10
220	Development strategies in transition metal carbide for hydrogen evolution reaction: A review. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1317-1330	2.8	7
219	Polymer blend directed anisotropic self-assembly toward mesoporous inorganic bowls and nanosheets. <i>Science Advances</i> , 2020 , 6, eabb3814	14.3	26
218	Structural Design of Amorphous CoMoPx with Abundant Active Sites and Synergistic Catalysis Effect for Effective Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 2003889	15.6	49
217	How g-CN Works and Is Different from TiO ₂ as an Environmental Photocatalyst: Mechanistic View. <i>Environmental Science & Technology</i> , 2020 , 54, 497-506	10.3	33
216	Carbon dioxide to solid carbon at the surface of iron nanoparticle: Hollow nanocarbons for sodium ion battery anode application. <i>Journal of CO₂ Utilization</i> , 2019 , 34, 588-595	7.6	3
215	Thermally Robust Porous Bimetallic (Ni Pt) Alloy Mesocrystals within Carbon Framework: High-Performance Catalysts for Oxygen Reduction and Hydrogenation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21435-21444	9.5	9
214	A Comprehensive Review of Materials with Catalytic Effects in LiS Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie</i> , 2019 , 131, 18920-18931	3.6	49

213	A Comprehensive Review of Materials with Catalytic Effects in Li-S Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18746-18757	16.4	221
212	Amorphous Tin Oxide Nanohelix Structure Based Electrode for Highly Reversible Na-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 6513-6521	16.7	22
211	N- and B-Codoped Graphene: A Strong Candidate To Replace Natural Peroxidase in Sensitive and Selective Bioassays. <i>ACS Nano</i> , 2019 , 13, 4312-4321	16.7	103
210	Versatile Strategy for Tuning ORR Activity of a Single Fe-N Site by Controlling Electron-Withdrawing/Donating Properties of a Carbon Plane. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6254-6262	16.4	300
209	Spontaneous Generation of HO and Hydroxyl Radical through O Reduction on Copper Phosphide under Ambient Aqueous Condition. <i>Environmental Science & Technology</i> , 2019 , 53, 2918-2925	10.3	51
208	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. <i>Nature Communications</i> , 2019 , 10, 940	17.4	191
207	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33835-33843	9.5	39
206	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 16184-16188	3.6	33
205	Investigation of the Support Effect in Atomically Dispersed Pt on WO for Utilization of Pt in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16038-16042	16.4	133
204	Improved pseudocapacitive charge storage in highly ordered mesoporous TiO/carbon nanocomposites as high-performance Li-ion hybrid supercapacitor anodes.. <i>RSC Advances</i> , 2019 , 9, 37882-37886	3.7	6
203	Controlled Leaching Derived Synthesis of Atomically Dispersed/Clustered Gold on Mesoporous Cobalt Oxide for Enhanced Oxygen Evolution Reaction Activity. <i>Small Methods</i> , 2019 , 3, 1800293	12.8	13
202	Approaching Ultrastable High-Rate Li-S Batteries through Hierarchically Porous Titanium Nitride Synthesized by Multiscale Phase Separation. <i>Advanced Materials</i> , 2019 , 31, e1806547	24	105
201	Rational Design of TiC-Supported Single-Atom Electrocatalysts for Hydrogen Evolution and Selective Oxygen Reduction Reactions. <i>ACS Energy Letters</i> , 2019 , 4, 126-132	20.1	69
200	Cu-Pd alloy nanoparticles as highly selective catalysts for efficient electrochemical reduction of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 82-88	21.8	102
199	Highly sensitive colorimetric detection of allergies based on an immunoassay using peroxidase-mimicking nanozymes. <i>Analyst, The</i> , 2018 , 143, 1182-1187	5	12
198	Selective charge transfer to dioxygen on KPF ₆ -modified carbon nitride for photocatalytic synthesis of H ₂ O ₂ under visible light. <i>Journal of Catalysis</i> , 2018 , 357, 51-58	7.3	62
197	Simple modification with amine- and hydroxyl- group rich biopolymer on ordered mesoporous carbon/sulfur composite for lithium-sulfur batteries. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 579-586	2.8	32
196	Multiscale Phase Separations for Hierarchically Ordered Macro/Mesostructured Metal Oxides. <i>Advanced Materials</i> , 2018 , 30, 1703829	24	45

195	Mesoporous tungsten oxynitride as electrocatalyst for promoting redox reactions of vanadium redox couple and performance of vanadium redox flow battery. <i>Applied Surface Science</i> , 2018 , 429, 187-195	6.7	46
194	Soft-template synthesis of mesoporous non-precious metal catalyst with Fe-N x /C active sites for oxygen reduction reaction in fuel cells. <i>Applied Catalysis B: Environmental</i> , 2018 , 222, 191-199	21.8	90
193	Comparative investigation of nitrogen species in transition metals incorporated carbon catalysts for the oxygen reduction reaction. <i>Chemical Physics Letters</i> , 2018 , 708, 42-47	2.5	2
192	Cancer Therapy: Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy (Adv. Mater. 29/2018). <i>Advanced Materials</i> , 2018 , 30, 1870213	24	11
191	Synergistic Effect of Molecular-Type Electrocatalysts with Ultrahigh Pore Volume Carbon Microspheres for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018 , 12, 6013-6022	16.7	61
190	A novel strategy to develop non-noble metal catalyst for CO ₂ electroreduction: Hybridization of metal-organic polymer. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 154-161	21.8	30
189	Enhancing Durability and Photoelectrochemical Performance of the Earth Abundant Ni-Mo/TiO ₂ /CdS/CIGS Photocathode under Various pH Conditions. <i>ChemSusChem</i> , 2018 , 11, 3679-3688	8.3	11
188	Ni(OH) ₂ -WP Hybrid Nanorod Arrays for Highly Efficient and Durable Hydrogen Evolution Reactions in Alkaline Media. <i>ChemSusChem</i> , 2018 , 11, 3618-3624	8.3	26
187	Precipitation-Based Nanoscale Enzyme Reactor with Improved Loading, Stability, and Mass Transfer for Enzymatic CO ₂ Conversion and Utilization. <i>ACS Catalysis</i> , 2018 , 8, 6526-6536	13.1	24
186	Effects of Wet-Pressing and Cross-Linking on the Tensile Properties of Carbon Nanotube Fibers. <i>Materials</i> , 2018 , 11,	3.5	1
185	Ostwald Ripening Driven Exfoliation to Ultrathin Layered Double Hydroxides Nanosheets for Enhanced Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44518-44526	9.5	31
184	Sulfenic Acid Doped Mesocellular Carbon Foam as Powerful Catalyst for Activation of V(II)/V(III) Reaction in Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2703-A2708	3.9	3
183	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , 2018 , 30, e1707557	24	56
182	Generalized Access to Mesoporous Inorganic Particles and Hollow Spheres from Multicomponent Polymer Blends. <i>Advanced Materials</i> , 2018 , 30, e1801127	24	31
181	Oxygen Evolution Reaction on Ni-based Two-dimensional (2D) Titanate Nanosheets: Investigation on Effect of Fe Co-doping and Fe Incorporation from Electrolyte on the Activity. <i>ChemistrySelect</i> , 2018 , 3, 5130-5137	1.8	6
180	Ordered Mesoporous Titanium Nitride as a Promising Carbon-Free Cathode for Aprotic Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2017 , 11, 1736-1746	16.7	104
179	Inorganic Rubidium Cation as an Enhancer for Photovoltaic Performance and Moisture Stability of HC(NH ₂) ₂ PbI ₃ Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1605988	15.6	148
178	Enhanced performance of sulfur-infiltrated bimodal mesoporous carbon foam by chemical solution deposition as cathode materials for lithium sulfur batteries. <i>Scientific Reports</i> , 2017 , 7, 42238	4.9	17

177	Design and roles of RGO-wrapping in charge transfer and surface passivation in photoelectrochemical enhancement of cascade-band photoanode. <i>Nano Research</i> , 2017 , 10, 2415-2430	10	9
176	Single enzyme nanoparticles armored by a thin silicate network: Single enzyme caged nanoparticles. <i>Chemical Engineering Journal</i> , 2017 , 322, 510-515	14.7	16
175	Simple synthesis of multiple length-scale structured NbO with functional macrodomain-integrated mesoporous frameworks. <i>Chemical Communications</i> , 2017 , 53, 4100-4103	5.8	9
174	Quenching of material dependence in few-cycle driven electron acceleration from nanoparticles under many-particle charge interaction. <i>Journal of Modern Optics</i> , 2017 , 64, 995-1003	1.1	14
173	Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35133-35140	9.5	82
172	Enzyme-Driven Hasselback-Like DNA-Based Inorganic Superstructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1704213	15.6	22
171	Rational design of Li3VO4@carbon core-shell nanoparticles as Li-ion hybrid supercapacitor anode materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20969-20977	13	26
170	Solvothermal synthesis of sodium cobalt fluoride (NaCoF3) nanoparticle clusters. <i>Materials Letters</i> , 2017 , 207, 89-92	3.3	6
169	Tracking the confinement effect of highly dispersive carbon in a tungsten oxide/carbon nanocomposite: conversion anode materials in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24782-24789	13	14
168	General Synthesis of N-Doped Macroporous Graphene-Encapsulated Mesoporous Metal Oxides and Their Application as New Anode Materials for Sodium-Ion Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1603921	15.6	106
167	Ammonium Fluoride Mediated Synthesis of Anhydrous Metal Fluoride-Mesoporous Carbon Nanocomposites for High-Performance Lithium Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35180-35190	9.5	49
166	Direct access to aggregation-free and small intermetallic nanoparticles in ordered, large-pore mesoporous carbon for an electrocatalyst. <i>RSC Advances</i> , 2016 , 6, 88255-88264	3.7	10
165	High-Performance Sodium-Ion Hybrid Supercapacitor Based on Nb2O5@Carbon Core-Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 3711-3719	15.6	312
164	MoO2 nanocrystals interconnected on mesocellular carbon foam as a powerful catalyst for vanadium redox flow battery. <i>RSC Advances</i> , 2016 , 6, 17574-17582	3.7	48
163	Solar Hydrogen Production from Zinc Telluride Photocathode Modified with Carbon and Molybdenum Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7748-55	9.5	29
162	A mini review of designed mesoporous materials for energy-storage applications: from electric double-layer capacitors to hybrid supercapacitors. <i>Nanoscale</i> , 2016 , 8, 7827-33	7.7	136
161	Efficient protein digestion using highly-stable and reproducible trypsin coatings on magnetic nanofibers. <i>Chemical Engineering Journal</i> , 2016 , 288, 770-777	14.7	14
160	Cyanoacetic acid tethered thiophene for well-matched LUMO level in Ru(II)-terpyridine dye sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 126, 270-278	4.6	7

159	Bulk Concentration Dependence of Electrolyte Resistance Within Mesopores of Carbon Electrodes in Electric Double-Layer Capacitors. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 213-218	1.2	2
158	Unbiased Sunlight-Driven Artificial Photosynthesis of Carbon Monoxide from CO ₂ Using a ZnTe-Based Photocathode and a Perovskite Solar Cell in Tandem. <i>ACS Nano</i> , 2016 , 10, 6980-7	16.7	97
157	Facile synthesis of a mesostructured TiO ₂ @graphitized carbon (TiO ₂ @C) composite through the hydrothermal process and its application as the anode of lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 39484-39491	3.7	20
156	Vertically aligned nanostructured TiO ₂ photoelectrodes for high efficiency perovskite solar cells via a block copolymer template approach. <i>Nanoscale</i> , 2016 , 8, 11472-9	7.7	40
155	Facile conversion of activated carbon to battery anode material using microwave graphitization. <i>Carbon</i> , 2016 , 104, 106-111	10.4	35
154	A tailored TiO ₂ electron selective layer for high-performance flexible perovskite solar cells via low temperature UV process. <i>Nano Energy</i> , 2016 , 28, 380-389	17.1	100
153	Ordered-mesoporous Nb ₂ O ₅ /carbon composite as a sodium insertion material. <i>Nano Energy</i> , 2015 , 16, 62-70	17.1	104
152	Enhancing Stability of Perovskite Solar Cells to Moisture by the Facile Hydrophobic Passivation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17330-6	9.5	249
151	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 295, 228-234	8.9	66
150	Stabilized glycerol dehydrogenase for the conversion of glycerol to dihydroxyacetone. <i>Chemical Engineering Journal</i> , 2015 , 276, 283-288	14.7	24
149	Facile Synthesis of Nb ₂ O ₅ @Carbon Core-Shell Nanocrystals with Controlled Crystalline Structure for High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , 2015 , 9, 7497-505	16.7	340
148	Crosslinked chitosan coating on magnetic mesoporous silica with pre-adsorbed carbonic anhydrase for carbon dioxide conversion. <i>Chemical Engineering Journal</i> , 2015 , 276, 232-239	14.7	21
147	Salt-assisted synthesis of mesostructured cellular foams consisting of small primary particles with enhanced hydrothermal stability. <i>Microporous and Mesoporous Materials</i> , 2015 , 212, 66-72	5.3	3
146	Mesoporous Ge/GeO ₂ /Carbon Lithium-Ion Battery Anodes with High Capacity and High Reversibility. <i>ACS Nano</i> , 2015 , 9, 5299-309	16.7	141
145	Development of Highly Stable and Mass Transfer-Enhanced Cathode Catalysts: Support-Free Electrospun Intermetallic FePt Nanotubes for Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402093	21.8	54
144	Simple and Sensitive Point-of-Care Bioassay System Based on Hierarchically Structured Enzyme-Mimetic Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1311-6	10.1	37
143	Direct confinement of Ru nanoparticles inside nanochannels of large pore mesoporous aluminosilicate for Fischer-Tropsch synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23725-23731	13	5
142	Highly efficient perovskite solar cells based on mechanically durable molybdenum cathode. <i>Nano Energy</i> , 2015 , 17, 131-139	17.1	35

141	Highly mesoporous silicon derived from waste iron slag for high performance lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21899-21906	13	26
140	Fabrication of conductive oxidase-entrapping nanocomposite of mesoporous ceria/carbon for efficient electrochemical biosensor. <i>RSC Advances</i> , 2015 , 5, 78747-78753	3.7	7
139	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO ₂ reduction system. <i>Energy and Environmental Science</i> , 2015 , 8, 3597-3604	35.4	122
138	Effect of mesocellular carbon foam electrode material on performance of vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015 , 278, 245-254	8.9	30
137	One pot synthesis of mesoporous boron nitride using polystyrene-b-poly(ethylene oxide) block copolymer. <i>RSC Advances</i> , 2015 , 5, 6528-6535	3.7	21
136	Awakening Solar Water-Splitting Activity of ZnFe ₂ O ₄ Nanorods by Hybrid Microwave Annealing. <i>Advanced Energy Materials</i> , 2015 , 5, 1401933	21.8	85
135	Reversibility of Lithium-Ion Air Batteries Using Lithium Intercalation Compounds as Anodes. <i>ChemPlusChem</i> , 2015 , 80, 349-353	2.8	5
134	Flexible Solar Cells: Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic/Inorganic Perovskite (Adv. Energy Mater. 22/2015). <i>Advanced Energy Materials</i> , 2015 , 5, n/a-n/a	21.8	2
133	Effect of Mesoporous Structured Cathode Materials on Charging Potentials and Rate Capability of Lithium-Oxygen Batteries. <i>ChemSusChem</i> , 2015 , 8, 3146-52	8.3	16
132	Influence of Metal Particle Size on Oxidative CO ₂ Reforming of Methane over Supported Nickel Catalysts: Effects of Second-Metal Addition. <i>ChemCatChem</i> , 2015 , 7, 1445-1452	5.2	24
131	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
130	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
129	Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic/Inorganic Perovskite. <i>Advanced Energy Materials</i> , 2015 , 5, 1501406	21.8	106
128	Structural Effect on Electrochemical Performance of Ordered Porous Carbon Electrodes for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11748-54	9.5	51
127	Carbonate-coordinated cobalt co-catalyzed BiVO ₄ /WO ₃ composite photoanode tailored for CO ₂ reduction to fuels. <i>Nano Energy</i> , 2015 , 15, 153-163	17.1	91
126	Polymer-coated spherical mesoporous silica for pH-controlled delivery of insulin. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 616-619	7.3	28
125	Silicon-Rich Carbon Hybrid Nanofibers from Water-Based Spinning: The Synergy Between Silicon and Carbon for Li-ion Battery Anode Application. <i>ChemElectroChem</i> , 2014 , 1, 220-226	4.3	20
124	Highly efficient colorimetric detection of target cancer cells utilizing superior catalytic activity of graphene oxide-magnetic-platinum nanohybrids. <i>Nanoscale</i> , 2014 , 6, 1529-36	7.7	98

123	C60 aminofullerene-magnetite nanocomposite designed for efficient visible light photocatalysis and magnetic recovery. <i>Carbon</i> , 2014 , 69, 92-100	10.4	21
122	Direct access to hierarchically porous inorganic oxide materials with three-dimensionally interconnected networks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16066-72	16.4	98
121	A highly sensitive immunoassay using antibody-conjugated spherical mesoporous silica with immobilized enzymes. <i>Chemical Communications</i> , 2014 , 50, 3546-8	5.8	18
120	Low-cost electrospun WC/C composite nanofiber as a powerful platinum-free counter electrode for dye sensitized solar cell. <i>Nano Energy</i> , 2014 , 9, 392-400	17.1	73
119	Simple fabrication of flexible electrodes with high metal-oxide content: electrospun reduced tungsten oxide/carbon nanofibers for lithium ion battery applications. <i>Nanoscale</i> , 2014 , 6, 10147-55	7.7	71
118	Reverse micelle synthesis of colloidal nickel-manganese layered double hydroxide nanosheets and their pseudocapacitive properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 14880-4	4.8	67
117	Advanced hybrid supercapacitor based on a mesoporous niobium pentoxide/carbon as high-performance anode. <i>ACS Nano</i> , 2014 , 8, 8968-78	16.7	339
116	Palladium oxide as a novel oxygen evolution catalyst on BiVO ₄ photoanode for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2014 , 317, 126-134	7.3	56
115	Effective antifouling using quorum-quenching acylase stabilized in magnetically-separable mesoporous silica. <i>Biomacromolecules</i> , 2014 , 15, 1153-9	6.9	48
114	Block Copolymer Directed Ordered Mesostructured TiNb ₂ O ₇ Multimetallic Oxide Constructed of Nanocrystals as High Power Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2014 , 26, 3508-3514	9.6	137
113	Improvement of desolvation and resilience of alginate binders for Si-based anodes in a lithium ion battery by calcium-mediated cross-linking. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25628-35	3.6	73
112	A highly efficient colorimetric immunoassay using a nanocomposite entrapping magnetic and platinum nanoparticles in ordered mesoporous carbon. <i>Advanced Healthcare Materials</i> , 2014 , 3, 36-41	10.1	49
111	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. <i>Electroanalysis</i> , 2014 , 26, 2075-2079	3	9
110	A direct one-step synthetic route to PdPt nanostructures with controllable shape, size, and composition for electrocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19239-19246	13	19
109	Synthesis of hierarchical linearly assembled graphitic carbon nanoparticles via catalytic graphitization in SBA-15. <i>Carbon</i> , 2014 , 75, 95-103	10.4	26
108	Magnetically recoverable hybrid TiO ₂ nanocrystal clusters with enhanced photocatalytic activity. <i>Materials Letters</i> , 2013 , 93, 141-144	3.3	16
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106	Enhanced stability and reusability of marine epoxide hydrolase using ship-in-a-bottle approach with magnetically-separable mesoporous silica. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 89, 48-51		23

105	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. <i>Carbon</i> , 2013 , 64, 391-402	10.4	81
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103	Block-Copolymer-Assisted One-Pot Synthesis of Ordered Mesoporous WO ₃ /Carbon Nanocomposites as High-Rate-Performance Electrodes for Pseudocapacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 3747-3754	15.6	126
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98	Ordered mesoporous carbon nanochannel reactors for high-performance Fischer-Tropsch synthesis. <i>Chemical Communications</i> , 2013 , 49, 5141-3	5.8	52
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