

# Jung Ho Kim

## 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.

252 papers	14,845 citations	57 h-index	117 g-index
262 ext. papers	16,798 ext. citations	8.1 avg, IF	6.79 L-index

#	Paper	IF	Citations
252	7 T Niobium-Titanium-Based Persistent-Mode Superconducting Magnet for an Electron Beam Ion Source. <i>IEEE Access</i> , <b>2022</b> , 10, 14731-14738	3.5	
251	The advent of manganese-substituted sodium vanadium phosphate-based cathodes for sodium-ion batteries and their current progress: a focused review. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 1022-1046	13.46	5
250	Mechanistic and nanoarchitectonics insight into Li <sup>+</sup> host interactions in carbon hosts for reversible Li metal storage. <i>Nano Energy</i> , <b>2022</b> , 95, 106999	17.1	1
249	Hydrogen evolution reaction catalyst with high catalytic activity by interplay between organic molecules and transition metal dichalcogenide monolayers. <i>Materials Today Energy</i> , <b>2022</b> , 25, 100976	7	2
248	Porous carbon architectures with different dimensionalities for lithium metal storage.. <i>Science and Technology of Advanced Materials</i> , <b>2022</b> , 23, 169-188	7.1	0
247	Resistive Water Level Sensors Based on AgNWs/PEDOT:PSS-PEGME Hybrid Film for Agricultural Monitoring Systems.. <i>ACS Omega</i> , <b>2022</b> , 7, 15459-15466	3.9	
246	Mechanically Stable Kirigami Deformable Resonant Circuits for Wireless Vibration and Pressure Sensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54162-54169	9.5	2
245	Interfacial reaction and side effect of MgB <sub>2</sub> superconducting material through low-rotation mechanical milling. <i>Ceramics International</i> , <b>2021</b> , 48, 6539-6539	5.1	0
244	Fundamental insight in the design of multifilament MgB <sub>2</sub> joint for boosting the persistent-mode operation. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 125003	3.1	0
243	Strategic Approaches to the Dendritic Growth and Interfacial Reaction of Lithium Metal Anode. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 4010	4.5	4
242	Solvothermally synthesized anatase TiO <sub>2</sub> nanoparticles for photoanodes in dye-sensitized solar cells. <i>Science and Technology of Advanced Materials</i> , <b>2021</b> , 22, 100-112	7.1	3
241	2D Nanogenerators: Patchable and Implantable 2D Nanogenerator (Small 9/2021). <i>Small</i> , <b>2021</b> , 17, 2170039	10.39	
240	Evaluation and control of residual amorphous phases in carbon-doped MgB <sub>2</sub> superconductors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158867	5.7	2
239	Structurally stabilized lithium-metal anode via surface chemistry engineering. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 315-324	19.4	21
238	Design of cobalt catalysed carbon nanotubes in bimetallic zeolitic imidazolate frameworks. <i>Applied Surface Science</i> , <b>2021</b> , 547, 149134	6.7	17
237	Stabilizing Li-metal host anode with LiF-rich solid electrolyte interphase. <i>Nano Convergence</i> , <b>2021</b> , 8, 18	9.2	3
236	Patchable and Implantable 2D Nanogenerator. <i>Small</i> , <b>2021</b> , 17, e1903519	11	15

235	Superconducting Joining Concept for Internal Magnesium Diffusion-Processed Magnesium Diboride Wires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3349-3357	9.5	6
234	Cobalt supported nitrogen-doped carbon nanotube as efficient catalyst for hydrogen evolution reaction and reduction of 4-nitrophenol. <i>Applied Surface Science</i> , <b>2021</b> , 151450	6.7	2
233	Critical role of surface craters for improving the reversibility of Li metal storage in porous carbon frameworks. <i>Nano Energy</i> , <b>2021</b> , 88, 106243	17.1	7
232	Superconducting joints using multifilament MgB <sub>2</sub> wires for MRI application. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114156	5.6	1
231	Nickel-Iron nitrides and alloy heterojunction with amorphous N-doped carbon Shell: High-efficiency synergistic electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150706	6.7	2
230	Enriched Cavities to ZIF-8-Derived Porous Carbon for Reversible Metallic Lithium Storage. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14520-14525	6.1	0
229	Tailoring Domain Morphology in Monolayer NbSe and WNbSe Heterostructure. <i>ACS Nano</i> , <b>2020</b> , 14, 8784-8792	16.7	13
228	Functionality of Dual-Phase Lithium Storage in a Porous Carbon Host for Lithium-Metal Anode. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910538	15.6	35
227	Morphology adjustable CoxN with 3D mesoporous structure and amorphous N-doped carbon for overall water splitting. <i>Applied Surface Science</i> , <b>2020</b> , 529, 147177	6.7	14
226	Biomolecular Piezoelectric Materials: From Amino Acids to Living Tissues. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906989	24	50
225	MgB <sub>2</sub> for MRI applications: dual sintering induced performance variations in in situ and IMD processed MgB <sub>2</sub> conductors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2507-2516	7.1	10
224	Tailored joint fabrication process derived ultra-low resistance MgB <sub>2</sub> superconducting joint. <i>Scripta Materialia</i> , <b>2020</b> , 178, 198-202	5.6	7
223	n-ZnO/p-NiO Core/Shell-Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , <b>2020</b> , 8, 2070103	3.5	1
222	Interplay between cold densification and malic acid addition (C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> ) for the fabrication of near-isotropic MgB <sub>2</sub> conductors for magnet application. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 8, 493-498	8.8	1
221	Focus on nanogenerators: toward smart wearable devices. <i>Science and Technology of Advanced Materials</i> , <b>2020</b> , 21, 422-423	7.1	3
220	Lithium metal storage in zeolitic imidazolate framework derived nanoarchitectures. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 95-107	19.4	19
219	n-ZnO/p-NiO Core/Shell-Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , <b>2020</b> , 8, 2000462	3.5	1
218	Bottom-Up Lithium Growth Triggered by Interfacial Activity Gradient on Porous Framework for Lithium-Metal Anode. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3108-3114	20.1	47

217	Hierarchically open-porous nitrogen-incorporated carbon polyhedrons derived from metal-organic frameworks for improved CDI performance. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122996	14.7	48
216	Oxygen-Deficient TiO <sub>2</sub> -Synthesized from MIL-125 Metal-Organic Framework for Photocatalytic Dye Degradation. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 2012-2018	5.1	6
215	Rationally designed bimetallic Au@Pt nanoparticles for glucose oxidation. <i>Scientific Reports</i> , <b>2019</b> , 9, 894	4.9	22
214	Electrochemical properties of nonstoichiometric silicon suboxide anode materials with controlled oxygen concentration. <i>Composites Part B: Engineering</i> , <b>2019</b> , 174, 107024	10	14
213	Ultra-thin, highly graphitized carbon nanosheets into three-dimensional interconnected framework utilizing a ball mill mixing of precursors. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 1214-1220	14.7	13
212	In-situ formation of MOF derived mesoporous Co <sub>3</sub> N/amorphous N-doped carbon nanocubes as an efficient electrocatalytic oxygen evolution reaction. <i>Nano Research</i> , <b>2019</b> , 12, 1605-1611	10	70
211	Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12654-12660	13	54
210	A Comparative Study of TiO <sub>2</sub> Paste Preparation Methods Using Solvothermally Synthesised Anatase Nanoparticles in Dye-Sensitised Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 979	2.6	1
209	Tunable porosity in bimetallic core-shell structured palladium-platinum nanoparticles for electrocatalysts. <i>Scripta Materialia</i> , <b>2019</b> , 158, 38-41	5.6	9
208	Everlasting Living and Breathing Gyroid 3D Network in Si@SiO <sub>x</sub> /C Nanoarchitecture for Lithium Ion Battery. <i>ACS Nano</i> , <b>2019</b> , 13, 9607-9619	16.7	106
207	Optical logic operation via plasmon-exciton interconversion in 2D semiconductors. <i>Scientific Reports</i> , <b>2019</b> , 9, 9164	4.9	5
206	Design of 2D Nanocrystalline Fe <sub>2</sub> Ni <sub>2</sub> N Coated onto Graphene Nanohybrid Sheets for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8502-8510	6.1	11
205	Niobium-titanium (Nb-Ti) superconducting joints for persistent-mode operation. <i>Scientific Reports</i> , <b>2019</b> , 9, 14287	4.9	12
204	Edge Contact for Carrier Injection and Transport in MoS <sub>2</sub> Field-Effect Transistors. <i>ACS Nano</i> , <b>2019</b> , 13, 13169-13175	16.7	28
203	Temperature-dependent piezotronic effect of MoS <sub>2</sub> monolayer. <i>Nano Energy</i> , <b>2019</b> , 58, 811-816	17.1	15
202	Au decorated core-shell structured Au@Pt for the glucose oxidation reaction. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 278, 88-96	8.5	47
201	Cubic aggregates of Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles and their application in dye-sensitized solar cells. <i>Nano Energy</i> , <b>2019</b> , 57, 202-213	17.1	26
200	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 521-528	5.1	65

199	Piezo/triboelectric nanogenerators based on 2-dimensional layered structure materials. <i>Nano Energy</i> , <b>2019</b> , 57, 680-691	17.1	72
198	Si Nanocrystal-Embedded SiO nanofoils: Two-Dimensional Nanotechnology-Enabled High Performance Li Storage Materials. <i>Scientific Reports</i> , <b>2018</b> , 8, 6904	4.9	10
197	Facile Synthesis of Palladium-Nanoparticle-Embedded N-Doped Carbon Fibers for Electrochemical Sensing. <i>ChemPlusChem</i> , <b>2018</b> , 83, 401-406	2.8	6
196	Efficient wide range electrochemical bisphenol-A sensor by self-supported dendritic platinum nanoparticles on screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2800-2808	8.5	48
195	Strategically Designed Zeolitic Imidazolate Frameworks for Controlling the Degree of Graphitization. <i>Bulletin of the Chemical Society of Japan</i> , <b>2018</b> , 91, 1474-1480	5.1	33
194	Evaluation of a solid nitrogen impregnated MgB <sub>2</sub> racetrack coil. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 105010	3.1	20
193	The effect of amorphous TiO <sub>2</sub> in P25 on dye-sensitized solar cell performance. <i>Chemical Communications</i> , <b>2018</b> , 54, 381-384	5.8	25
192	Mesoporous Manganese Phosphonate Nanorods as a Prospective Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 19739-19745	9.5	31
191	Superior transport J <sub>c</sub> obtained in in-situ MgB <sub>2</sub> wires by tailoring the starting materials and using a combined cold high pressure densification and hot isostatic pressure treatment. <i>Scripta Materialia</i> , <b>2017</b> , 129, 79-83	5.6	13
190	Theoretically designed metal-welded carbon nanotubes: Extraordinary electronic properties and promoted catalytic performance. <i>Nano Energy</i> , <b>2017</b> , 32, 209-215	17.1	16
189	Mesoporous NiFe oxide multi-composite hollow nanocages for efficient electrocatalytic water oxidation reactions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4320-4324	13	85
188	Nanotechnology and its medical applications: revisiting public policies from a regulatory perspective in Australia. <i>Nanotechnology Reviews</i> , <b>2017</b> , 6, 255-269	6.3	5
187	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. <i>ACS Nano</i> , <b>2017</b> , 11, 2477-2485	16.7	135
186	Synergistic effect of Indium and Gallium co-doping on growth behavior and physical properties of hydrothermally grown ZnO nanorods. <i>Scientific Reports</i> , <b>2017</b> , 7, 41992	4.9	40
185	Solid cryogen: a cooling system for future MgB MRI magnet. <i>Scientific Reports</i> , <b>2017</b> , 7, 43444	4.9	20
184	Highly Ordered Mesostructured Vanadium Phosphonate toward Electrode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4344-4352	4.8	29
183	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. <i>Chemical Science</i> , <b>2017</b> , 8, 3538-3546	9.4	264
182	Research Update: Hybrid energy devices combining nanogenerators and energy storage systems for self-charging capability. <i>APL Materials</i> , <b>2017</b> , 5, 073804	5.7	46

181	Understanding chemically processed solar cells based on quantum dots. <i>Science and Technology of Advanced Materials</i> , <b>2017</b> , 18, 334-350	7.1	29
180	Synthesis and Cytotoxicity of Dendritic Platinum Nanoparticles with HEK-293 Cells. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 21-26	4.5	17
179	Three-Dimensional Super-Branched PdCu Nanoarchitectures Exposed on Controlled Crystal Facets. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 51-56	4.8	19
178	A Simple Silver Nanowire Patterning Method Based on Poly(Ethylene Glycol) Photolithography and Its Application for Soft Electronics. <i>Scientific Reports</i> , <b>2017</b> , 7, 2282	4.9	45
177	Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15065-15072	13	113
176	Synthesis of Carbon Nanospheres Through Carbonization of Areca nut. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 2837-842	1.3	12
175	Facile synthesis of nanoporous LiVO@C composites as promising anode materials for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 9156-9163	3.6	2
174	A Three-Dimensionally Structured Electrocatalyst: Cobalt-Embedded Nitrogen-Doped Carbon Nanotubes/Nitrogen-Doped Reduced Graphene Oxide Hybrid for Efficient Oxygen Reduction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 637-643	4.8	42
173	Fabrication, Transport Current Testing, and Finite Element Analysis of MgB <sub>2</sub> Racetrack Coils. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2017</b> , 30, 2957-2962	1.5	2
172	Redox-Active Polymers for Energy Storage Nanoarchitectonics. <i>Joule</i> , <b>2017</b> , 1, 739-768	27.8	263
171	Aggregated mesoporous nanoparticles for high surface area light scattering layer TiO photoanodes in Dye-sensitized Solar Cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 10341	4.9	26
170	Preface for Special Topic: Nanogenerators. <i>APL Materials</i> , <b>2017</b> , 5, 073701	5.7	9
169	Ni-Co Binary Hydroxide Nanotubes with Three-Dimensionally Structured Nanoflakes: Synthesis and Application as Cathode Materials for Hybrid Supercapacitors. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 10133-10138	4.8	3
168	Preferential growth of boron layer in magnesium diboride (MgB <sub>2</sub> ) by Mg diffusion method. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 526-535	5.7	8
167	Prussian Blue-Derived Synthesis of Hollow Porous Iron Pyrite Nanoparticles as Platinum-Free Counter Electrodes for Highly Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13263-13263	4.8	
166	Highly Efficient Thin-Film Transistor via Cross-Linking of 1T Edge Functional 2H Molybdenum Disulfides. <i>ACS Nano</i> , <b>2017</b> , 11, 12832-12839	16.7	13
165	Prussian Blue-Derived Synthesis of Hollow Porous Iron Pyrite Nanoparticles as Platinum-Free Counter Electrodes for Highly Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13284-13288	4.8	22
164	Controlled growth of polythiophene nanofibers in TiO <sub>2</sub> nanotube arrays for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 172-180	13	58



163	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602002	21.8	137
162	Doping-Induced Isotopic Mg <sub>11</sub> B <sub>2</sub> Bulk Superconductor for Fusion Application. <i>Energies</i> , <b>2017</b> , 10, 409	3.1	5
161	Electrochemical Property of Mesoporous Crystalline Iron Phosphonate Anode in Li-Ion Rechargeable Battery. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 9180-9185	1.3	5
160	Si/SiO <sub>2</sub> -Conductive Polymer Core-Shell Nanospheres with an Improved Conducting Path Preservation for Lithium-Ion Battery. <i>ChemSusChem</i> , <b>2016</b> , 9, 2754-2758	8.3	37
159	Conductive polymers for next-generation energy storage systems: recent progress and new functions. <i>Materials Horizons</i> , <b>2016</b> , 3, 517-535	14.4	210
158	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12746-50	16.4	42
157	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12938-12942	3.6	10
156	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. <i>Nano Energy</i> , <b>2016</b> , 28, 232-240	17.1	54
155	Rechargeable lithium-air batteries: a perspective on the development of oxygen electrodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14050-14068	13	132
154	Nanoarchitectures for Metal-Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 2796-2806	24.3	547
153	A Facile Approach for Constructing Conductive Polymer Patterns for Application in Electrochromic Devices and Flexible Microelectrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33175-33182	9.5	33
152	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 29308-29315	3.6	177
151	A new approach to a superconducting joining process for carbon-doped MgB <sub>2</sub> conductor. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 095001	3.1	13
150	Tunable-Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10191-10195	3.6	11
149	Tunable-Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10037-41	16.4	101
148	Deliberate Design of TiO <sub>2</sub> Nanostructures towards Superior Photovoltaic Cells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11357-64	4.8	25
147	Formation of mesopores inside platinum nanospheres by using double hydrophilic block copolymers. <i>Materials Letters</i> , <b>2016</b> , 182, 190-193	3.3	4
146	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. <i>Scientific Reports</i> , <b>2016</b> , 6, 30295	4.9	267

145	Unique nanocrystalline frameworks in mesoporous tin phosphate prepared through a hydrofluoric acid assisted chemical reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18091-18099	13	10
144	Improvement in the transport critical current density and microstructure of isotopic MgB monofilament wires by optimizing the sintering temperature. <i>Scientific Reports</i> , <b>2016</b> , 6, 36660	4.9	5
143	Synthesis of Cobalt Sulfide/Sulfur Doped Carbon Nanocomposites with Efficient Catalytic Activity in the Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 18259-18264	4.8	39
142	Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. <i>Chemical Science</i> , <b>2016</b> , 7, 5704-5713	9.4	201
141	Electrospun Polyacrylonitrile-Ionic Liquid Nanofibers for Superior PM2.5 Capture Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7030-6	9.5	74
140	Directional dependent piezoelectric effect in CVD grown monolayer MoS <sub>2</sub> for flexible piezoelectric nanogenerators. <i>Nano Energy</i> , <b>2016</b> , 22, 483-489	17.1	154
139	Controlled delivery of drugs adsorbed onto porous Fe <sub>3</sub> O <sub>4</sub> structures by application of AC/DC magnetic fields. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 226, 243-250	5.3	23
138	The smallest quaternary ammonium salts with ether groups for high-performance electrochemical double layer capacitors. <i>Chemical Science</i> , <b>2016</b> , 7, 1791-1796	9.4	34
137	Magnesium diboride(MgB <sub>2</sub> ) wires for applications. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , <b>2016</b> , 18, 1-5		2
136	Superior Electrocatalytic Activity of a Robust Carbon-Felt Electrode with Oxygen-Rich Phosphate Groups for All-Vanadium Redox Flow Batteries. <i>ChemSusChem</i> , <b>2016</b> , 9, 1329-38	8.3	73
135	Nanoarchitectures for Mesoporous Metals. <i>Advanced Materials</i> , <b>2016</b> , 28, 993-1010	24	297
134	Fly compound-eye inspired inorganic nanostructures with extraordinary visible-light responses. <i>Materials Today Chemistry</i> , <b>2016</b> , 1-2, 84-89	6.2	17
133	Strategic synthesis of mesoporous Pt-on-Pd bimetallic spheres templated from a polymeric micelle assembly. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9169-9176	13	25
132	All-in-one energy harvesting and storage devices. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7983-7999	13	195
131	Cyano-Bridged Trimetallic Coordination Polymer Nanoparticles and Their Thermal Decomposition into Nanoporous Spinel Ferromagnetic Oxides. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 15042-15048	4.8	8
130	Absorption dichroism of monolayer 1T'-MoTe <sub>2</sub> in visible range. <i>2D Materials</i> , <b>2016</b> , 3, 031010	5.9	28
129	Graphene-like holey Co <sub>3</sub> O <sub>4</sub> nanosheets as a highly efficient catalyst for oxygen evolution reaction. <i>Nano Energy</i> , <b>2016</b> , 30, 267-275	17.1	147
128	Evaluation of persistent-mode operation in a superconducting MgB <sub>2</sub> coil in solid nitrogen. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 04LT02	3.1	17



127	CNTs grown on nanoporous carbon from zeolitic imidazolate frameworks for supercapacitors. <i>Chemical Communications</i> , <b>2016</b> , 52, 13016-13019	5.8	94
126	Magnetic nanoparticles for "smart liposomes". <i>European Biophysics Journal</i> , <b>2015</b> , 44, 647-54	1.9	18
125	DEVICE TECHNOLOGY. Phase patterning for ohmic homojunction contact in MoTe <sub>2</sub> . <i>Science</i> , <b>2015</b> , 349, 625-8	33.3	679
124	Shape-controlled synthesis of mesoporous iron phosphate materials with crystallized frameworks. <i>Chemical Communications</i> , <b>2015</b> , 51, 13806-9	5.8	18
123	A technology review of electrodes and reaction mechanisms in vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16913-16933	13	415
122	Carbon doping induced imperfections on MgB <sub>2</sub> superconducting wire. <i>Journal of Analytical Science and Technology</i> , <b>2015</b> , 6,	3.4	17
121	Control of core structure in MgB <sub>2</sub> wire through tailoring boron powder. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 636, 29-33	5.7	11
120	Correlation between in-field J <sub>c</sub> enhancement and grain connectivity in co-doped MgB <sub>2</sub> superconductor. <i>Materials Letters</i> , <b>2015</b> , 139, 333-335	3.3	13
119	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. <i>ACS Nano</i> , <b>2015</b> , 9, 6288-96	16.7	785
118	Rational design of coaxial structured carbon nanotube-manganese oxide (CNT-MnO <sub>2</sub> ) for energy storage application. <i>Nanotechnology</i> , <b>2015</b> , 26, 204004	3.4	48
117	Fabrication of Asymmetric Supercapacitors Based on Coordination Polymer Derived Nanoporous Materials. <i>Electrochimica Acta</i> , <b>2015</b> , 183, 94-99	6.7	18
116	Bandgap opening in few-layered monoclinic MoTe <sub>2</sub> . <i>Nature Physics</i> , <b>2015</b> , 11, 482-486	16.2	596
115	Two-step self-assembly of hierarchically-ordered nanostructures. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11688-11699	13	44
114	A Facile Preparation of Mesoporous Carbon Composites with Well-Dispersed Pd Nanoparticles and Their Utilization as Supports for Pt Catalysts. <i>Electrochimica Acta</i> , <b>2015</b> , 183, 112-118	6.7	7
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112	Surface-Tunable Bioluminescence Resonance Energy Transfer via Geometry-Controlled ZnO Nanorod Coordination. <i>Small</i> , <b>2015</b> , 11, 3469-75	11	4
111	Electrospun manganese-cobalt oxide hollow nanofibres synthesized via combustion reactions and their lithium storage performance. <i>Nanoscale</i> , <b>2015</b> , 7, 8351-5	7.7	97
110	Incorporation of conductive polymer into soft carbon electrodes for lithium ion capacitors. <i>Journal of Power Sources</i> , <b>2015</b> , 299, 49-56	8.9	22

109	Improved transport critical current properties in glycerin-doped MgB2 wire using milled boron powder and a solid-state reaction of 600°C. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 650, 794-798	5.7	11
108	Surfactant-Directed Synthesis of Mesoporous Pd Films with Perpendicular Mesochannels as Efficient Electrocatalysts. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11558-61	16.4	80
107	Trap-Assisted Transport and Non-Uniform Charge Distribution in Sulfur-Rich PbS Colloidal Quantum Dot-based Solar Cells with Selective Contacts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26455-60	9.5	9
106	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 30963-77	3.6	105
105	Mesoporous Hierarchical Anatase for Dye-sensitized Solar Cells Achieving Over 10% Conversion Efficiency. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 393-398	6.7	26
104	Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. <i>Nano Energy</i> , <b>2015</b> , 11, 211-218	17.1	403
103	Mesoporous anatase single crystals for efficient Co(2+/3+)-based dye-sensitized solar cells. <i>Nano Energy</i> , <b>2015</b> , 11, 557-567	17.1	48
102	Controlled Synthesis of Nanoporous Nickel Oxide with Two-Dimensional Shapes through Thermal Decomposition of Metal Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 3509-3509	4.8	1
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100	Polymeric micelle assembly for the smart synthesis of mesoporous platinum nanospheres with tunable pore sizes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11073-7	16.4	149
99	Electrochemical Synthesis of Mesoporous Pt Nanowires with Highly Electrocatalytic Activity toward Methanol Oxidation Reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 183, 107-111	6.7	17
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94	The effect of surface passivation on the structure of sulphur-rich PbS colloidal quantum dots for photovoltaic application. <i>Nanoscale</i> , <b>2015</b> , 7, 5706-11	7.7	28
93	Nanopatterned textile-based wearable triboelectric nanogenerator. <i>ACS Nano</i> , <b>2015</b> , 9, 3501-9	16.7	495
92	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1082-1089	9.6	127

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88	A highly resilient mesoporous SiO <sub>x</sub> lithium storage material engineered by oil-water templating. <i>ChemSusChem</i> , <b>2015</b> , 8, 688-94	8.3	38
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85	A new strategy for integrating abundant oxygen functional groups into carbon felt electrode for vanadium redox flow batteries. <i>Scientific Reports</i> , <b>2014</b> , 4, 6906	4.9	106
84	The formation of nano-layered grains and their enhanced superconducting transition temperature in Mg-doped FeSe <sub>0.9</sub> bulks. <i>Scientific Reports</i> , <b>2014</b> , 4, 6481	4.9	6
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82	Percolative nature of current transport in polycrystalline MgB <sub>2</sub> wires. <i>Solid State Communications</i> , <b>2014</b> , 181, 20-23	1.6	5
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70	Ultrafine SnO <sub>2</sub> nanoparticle loading onto reduced graphene oxide as anodes for sodium-ion batteries with superior rate and cycling performances. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 529-534 <sup>13</sup>		272
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13	Development of textured Ni substrates for coated conductor prepared by powder metallurgy and plasma arc melting method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2004</b> , 14, 1086-1089	1.8	5
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1 All-day wearable health monitoring system. *EcoMat*,

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