Jung Ho Kim

List of Publications by Citations

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	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. *ACS Nano*, **2015**, 9, 6288-96	16.7	785
251	DEVICE TECHNOLOGY. Phase patterning for ohmic homojunction contact in MoTe*Science*, **2015**, 349, 625-8	33.3	679
250	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. *Nature Communications*, **2014**, 5, 3813	17.4	630
249	Bandgap opening in few-layered monoclinic MoTe2. *Nature Physics*, **2015**, 11, 482-486	16.2	596
248	Nanoarchitectures for Metal-Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. *Accounts of Chemical Research*, **2016**, 49, 2796-2806	24.3	547
247	Nanopatterned textile-based wearable triboelectric nanogenerator. *ACS Nano*, **2015**, 9, 3501-9	16.7	495
246	A technology review of electrodes and reaction mechanisms in vanadium redox flow batteries. *Journal of Materials Chemistry A*, **2015**, 3, 16913-16933	13	415
245	Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. *Nano Energy*, **2015**, 11, 211-218	17.1	403
244	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. *Journal of Materials Chemistry A*, **2014**, 2, 19848-19854	13	376
243	Rational design of 3D dendritic TiO2 nanostructures with favorable architectures. *Journal of the American Chemical Society*, **2011**, 133, 19314-7	16.4	360
242	Nanoarchitectures for Mesoporous Metals. *Advanced Materials*, **2016**, 28, 993-1010	24	297
241	Sn4+x P3 @ amorphous Sn-P composites as anodes for sodium-ion batteries with low cost, high capacity, long life, and superior rate capability. *Advanced Materials*, **2014**, 26, 4037-42	24	278
240	Ultrafine SnO2 nanoparticle loading onto reduced graphene oxide as anodes for sodium-ion batteries with superior rate and cycling performances. *Journal of Materials Chemistry A*, **2014**, 2, 529-534	13	272
239	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. *Scientific Reports*, **2016**, 6, 30295	4.9	267
238	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. *Chemical Science*, **2017**, 8, 3538-3546	9.4	264
237	Redox-Active Polymers for Energy Storage Nanoarchitectonics. *Joule*, **2017**, 1, 739-768	27.8	263
236	Fly-eye inspired superhydrophobic anti-fogging inorganic nanostructures. *Small*, **2014**, 10, 3001-6	11	231

235	Conductive polymers for next-generation energy storage systems: recent progress and new functions. *Materials Horizons*, **2016**, 3, 517-535	14.4	210
234	Core-shell structured silicon nanoparticles@TiO2-x/carbon mesoporous microfiber composite as a safe and high-performance lithium-ion battery anode. *ACS Nano*, **2014**, 8, 2977-85	16.7	202
233	Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. *Chemical Science*, **2016**, 7, 5704-5713	9.4	201
232	All-in-one energy harvesting and storage devices. *Journal of Materials Chemistry A*, **2016**, 4, 7983-7999	13	195
231	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. *Physical Chemistry Chemical Physics*, **2016**, 18, 29308-29315	3.6	177
230	A case study on fibrous porous SnO2 anode for robust, high-capacity lithium-ion batteries. *Nano Energy*, **2014**, 10, 53-62	17.1	158
229	Directional dependent piezoelectric effect in CVD grown monolayer MoS 2 for flexible piezoelectric nanogenerators. *Nano Energy*, **2016**, 22, 483-489	17.1	154
228	Polymeric micelle assembly for the smart synthesis of mesoporous platinum nanospheres with tunable pore sizes. *Angewandte Chemie - International Edition*, **2015**, 54, 11073-7	16.4	149
227	Graphene-like holey Co3O4 nanosheets as a highly efficient catalyst for oxygen evolution reaction. *Nano Energy*, **2016**, 30, 267-275	17.1	147
226	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. *Advanced Energy Materials*, **2017**, 7, 1602002	21.8	137
225	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. *ACS Nano*, **2017**, 11, 2477-2485	16.7	135
224	Rechargeable lithium–air batteries: a perspective on the development of oxygen electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 14050-14068	13	132
223	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. *Chemistry of Materials*, **2015**, 27, 1082-1089	9.6	127
222	Direct growth of cobalt hydroxide rods on nickel foam and its application for energy storage. *Chemistry - A European Journal*, **2014**, 20, 3084-8	4.8	120
221	Synthesis of mesoporous TiO2/SiO2 hybrid films as an efficient photocatalyst by polymeric micelle assembly. *Chemistry - A European Journal*, **2014**, 20, 6027-32	4.8	117
220	3D hierarchical rutile TiO2 and metal-free organic sensitizer producing dye-sensitized solar cells 8.6% conversion efficiency. *Scientific Reports*, **2014**, 4, 5769	4.9	114
219	Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 15065-15072	13	113
218	A new strategy for integrating abundant oxygen functional groups into carbon felt electrode for vanadium redox flow batteries. *Scientific Reports*, **2014**, 4, 6906	4.9	106

217	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. *ACS Nano*, **2019**, 13, 9607-9619	16.7	106
216	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. *Physical Chemistry Chemical Physics*, **2015**, 17, 30963-77	3.6	105
215	Microscopic role of carbon on MgB2 wire for critical current density comparable to NbTi. *NPG Asia Materials*, **2012**, 4, e3-e3	10.3	105
214	Tunable-Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. *Angewandte Chemie - International Edition*, **2016**, 55, 10037-41	16.4	101
213	Electrospun manganese-cobalt oxide hollow nanofibres synthesized via combustion reactions and their lithium storage performance. *Nanoscale*, **2015**, 7, 8351-5	7.7	97
212	CNTs grown on nanoporous carbon from zeolitic imidazolate frameworks for supercapacitors. *Chemical Communications*, **2016**, 52, 13016-13019	5.8	94
211	Morphology-controllable 1D-3D nanostructured TiO2 bilayer photoanodes for dye-sensitized solar cells. *Chemical Communications*, **2013**, 49, 966-8	5.8	90
210	Mesoporous NiFe oxide multi-composite hollow nanocages for efficient electrocatalytic water oxidation reactions. *Journal of Materials Chemistry A*, **2017**, 5, 4320-4324	13	85
209	Zr4+ doping in Li4Ti5O12 anode for lithium-ion batteries: open Li+ diffusion paths through structural imperfection. *ChemSusChem*, **2014**, 7, 1451-7	8.3	83
208	Surfactant-Directed Synthesis of Mesoporous Pd Films with Perpendicular Mesochannels as Efficient Electrocatalysts. *Journal of the American Chemical Society*, **2015**, 137, 11558-61	16.4	80
207	Nanocomposites of silicon and carbon derived from coal tar pitch: Cheap anode materials for lithium-ion batteries with long cycle life and enhanced capacity. *Electrochimica Acta*, **2013**, 93, 213-221	6.7	80
206	Hydrogen silsequioxane-derived Si/SiO(x) nanospheres for high-capacity lithium storage materials. *ACS Applied Materials & Interfaces*, **2014**, 6, 9608-13	9.5	78
205	One-dimensional manganese-cobalt oxide nanofibres as bi-functional cathode catalysts for rechargeable metal-air batteries. *Scientific Reports*, **2015**, 5, 7665	4.9	76
204	Electrospun Polyacrylonitrile-Ionic Liquid Nanofibers for Superior PM2.5 Capture Capacity. *ACS Applied Materials & Interfaces*, **2016**, 8, 7030-6	9.5	74
203	Superior Electrocatalytic Activity of a Robust Carbon-Felt Electrode with Oxygen-Rich Phosphate Groups for All-Vanadium Redox Flow Batteries. *ChemSusChem*, **2016**, 9, 1329-38	8.3	73
202	Piezo/triboelectric nanogenerators based on 2-dimensional layered structure materials. *Nano Energy*, **2019**, 57, 680-691	17.1	72
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200	Tailored materials for high-performance MgB(2) wire. *Advanced Materials*, **2011**, 23, 4942-6	24	68

199	Controlled Ag-driven superior rate-capability of Li4Ti5O12 anodes for lithium rechargeable batteries. *Nano Research*, **2013**, 6, 365-372	10	67
198	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 521-528	5.1	65
197	Controlled growth of polythiophene nanofibers in TiO2 nanotube arrays for supercapacitor applications. *Journal of Materials Chemistry A*, **2017**, 5, 172-180	13	58
196	Structurally and electronically designed TiO2−x nanofibers for lithium rechargeable batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 691-6	9.5	57
195	Robust superhydrophobicity of hierarchical ZnO hollow microspheres fabricated by two-step self-assembly. *Nano Research*, **2013**, 6, 726-735	10	55
194	Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 12654-12660	13	54
193	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. *Nano Energy*, **2016**, 28, 232-240	17.1	54
192	Controlled synthesis of nanoporous nickel oxide with two-dimensional shapes through thermal decomposition of metal-cyanide hybrid coordination polymers. *Chemistry - A European Journal*, **2015**, 21, 3605-12	4.8	54
191	Highly connected hierarchical textured TiO2 spheres as photoanodes for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 8902-8909	13	52
190	Biomolecular Piezoelectric Materials: From Amino Acids to Living Tissues. *Advanced Materials*, **2020**, 32, e1906989	24	50
189	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. *Energy and Environmental Science*, **2011**, 4, 4978	35.4	50
188	Rational design of coaxial structured carbon nanotube-manganese oxide (CNT-MnO2) for energy storage application. *Nanotechnology*, **2015**, 26, 204004	3.4	48
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185	Scalable integration of Li5FeO4 towards robust, high-performance lithium-ion hybrid capacitors. *ChemSusChem*, **2014**, 7, 3138-44	8.3	48
184	Hierarchically open-porous nitrogen-incorporated carbon polyhedrons derived from metal-organic frameworks for improved CDI performance. *Chemical Engineering Journal*, **2020**, 382, 122996	14.7	48
183	Fish-scale bio-inspired multifunctional ZnO nanostructures. *NPG Asia Materials*, **2015**, 7, e232-e232	10.3	47
182	Bottom-Up Lithium Growth Triggered by Interfacial Activity Gradient on Porous Framework for Lithium-Metal Anode. *ACS Energy Letters*, **2020**, 5, 3108-3114	20.1	47

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180	Research Update: Hybrid energy devices combining nanogenerators and energy storage systems for self-charging capability. *APL Materials*, **2017**, 5, 073804	5.7	46
179	Li2RuO3 as an Additive for High-Energy Lithium-Ion Capacitors. *Journal of Physical Chemistry C*, **2013**, 117, 11471-11478	3.8	46
178	A Simple Silver Nanowire Patterning Method Based on Poly(Ethylene Glycol) Photolithography and Its Application for Soft Electronics. *Scientific Reports*, **2017**, 7, 2282	4.9	45
177	Two-step self-assembly of hierarchically-ordered nanostructures. *Journal of Materials Chemistry A*, **2015**, 3, 11688-11699	13	44
176	Rational design of MgB2 conductors toward practical applications. *Cryogenics*, **2014**, 63, 160-165	1.8	43
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174	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. *Angewandte Chemie - International Edition*, **2016**, 55, 12746-50	16.4	42
173	Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions. *Advanced Functional Materials*, **2014**, 24, 2721-2726	15.6	42
172	Synergistic effect of Indium and Gallium co-doping on growth behavior and physical properties of hydrothermally grown ZnO nanorods. *Scientific Reports*, **2017**, 7, 41992	4.9	40
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170	A highly resilient mesoporous SiOx lithium storage material engineered by oil-water templating. *ChemSusChem*, **2015**, 8, 688-94	8.3	38
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168	Functionality of Dual-Phase Lithium Storage in a Porous Carbon Host for Lithium-Metal Anode. *Advanced Functional Materials*, **2020**, 30, 1910538	15.6	35
167	The smallest quaternary ammonium salts with ether groups for high-performance electrochemical double layer capacitors. *Chemical Science*, **2016**, 7, 1791-1796	9.4	34
166	Ultra-high performance, high-temperature superconducting wires via cost-effective, scalable, co-evaporation process. *Scientific Reports*, **2014**, 4, 4744	4.9	33
165	A Facile Approach for Constructing Conductive Polymer Patterns for Application in Electrochromic Devices and Flexible Microelectrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 33175-33182	9.5	33
164	Strategically Designed Zeolitic Imidazolate Frameworks for Controlling the Degree of Graphitization. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 1474-1480	5.1	33

163	Improved photovoltaic performance of dye-sensitized solar cells with modified self-assembling highly ordered mesoporous TiO2 photoanodes. *Journal of Materials Chemistry*, **2012**, 22, 11711		33
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161	Towards vaporized molecular discrimination: a quartz crystal microbalance (QCM) sensor system using cobalt-containing mesoporous graphitic carbon. *Chemistry - an Asian Journal*, **2014**, 9, 3238-44	4.5	32
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158	Large magnetic entropy change near room temperature in La0.7(Ca0.27Ag0.03)MnO3 perovskite. *Journal of Alloys and Compounds*, **2011**, 509, 3699-3704	5.7	30
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156	Understanding chemically processed solar cells based on quantum dots. *Science and Technology of Advanced Materials*, **2017**, 18, 334-350	7.1	29
155	Edge Contact for Carrier Injection and Transport in MoS Field-Effect Transistors. *ACS Nano*, **2019**, 13, 13169-13175	16.7	28
154	Architecture designed ZnO hollow microspheres with wide-range visible-light photoresponses. *Journal of Materials Chemistry C*, **2013**, 1, 6924	7.1	28
153	The effect of surface passivation on the structure of sulphur-rich PbS colloidal quantum dots for photovoltaic application. *Nanoscale*, **2015**, 7, 5706-11	7.7	28
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151	Mesoporous Hierarchical Anatase for Dye-sensitized Solar Cells Achieving Over 10% Conversion Efficiency. *Electrochimica Acta*, **2015**, 153, 393-398	6.7	26
150	Aggregated mesoporous nanoparticles for high surface area light scattering layer TiO photoanodes in Dye-sensitized Solar Cells. *Scientific Reports*, **2017**, 7, 10341	4.9	26
149	Enhancement of transition temperature in FexSe0.5Te0.5 film via iron vacancies. *Applied Physics Letters*, **2014**, 104, 262601	3.4	26
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147	Deliberate Design of TiO2 Nanostructures towards Superior Photovoltaic Cells. *Chemistry - A European Journal*, **2016**, 22, 11357-64	4.8	25
146	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. *Angewandte Chemie*, **2015**, 127, 11225-11229	3.6	25

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136	Improvement of refrigerant capacity of La0.7Ca0.3MnO3 material with a few percent Co doping. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 138-143	2.8	22
135	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant TiO2 for Superior Photovoltaic Performance. *Journal of the American Ceramic Society*, **2013**, 96, 2636-2643	3.8	21
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130	Effect of frozen spin on the magnetocaloric property of La0.7Ca0.3CoO3 polycrystalline and single crystal samples. *Journal of Alloys and Compounds*, **2012**, 510, 125-133	5.7	20
129	Three-Dimensional Super-Branched PdCu Nanoarchitectures Exposed on Controlled Crystal Facets. *Chemistry - A European Journal*, **2017**, 23, 51-56	4.8	19
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127	Magnetic nanoparticles for "smart liposomes". *European Biophysics Journal*, **2015**, 44, 647-54	1.9	18
126	Shape-controlled synthesis of mesoporous iron phosphate materials with crystallized frameworks. *Chemical Communications*, **2015**, 51, 13806-9	5.8	18
125	Fabrication of Asymmetric Supercapacitors Based on Coordination Polymer Derived Nanoporous Materials. *Electrochimica Acta*, **2015**, 183, 94-99	6.7	18
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117	Design of cobalt catalysed carbon nanotubes in bimetallic zeolitic imidazolate frameworks. *Applied Surface Science*, **2021**, 547, 149134	6.7	17
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101	Niobium-titanium (Nb-Ti) superconducting joints for persistent-mode operation. *Scientific Reports*, **2019**, 9, 14287	4.9	12
100	MgB2superconducting joints for persistent current operation. *Superconductor Science and Technology*, **2015**, 28, 065017	3.1	12
99	A superconducting joint between BiPbSrCaCuO multifilamentary tapes. *Superconductor Science and Technology*, **2002**, 15, 1600-1605	3.1	12
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96	Tunable-Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. *Angewandte Chemie*, **2016**, 128, 10191-10195	3.6	11
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94	Synergetic Combination of LIMD With CHPD for the Production of Economical and High Performance $hbox{MgB}_{2}$ Wires. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 6200704-6200704	1.8	11
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