Jung Ho Kim

List of Publications by Year
in descending order

252 papers	18,661 citations	17440 63 h-index	13375 130 g-index
262 all docs	262 docs citations	262 times ranked	23681 citing authors

#	Article	IF	Citations
1	Phase patterning for ohmic homojunction contact in MoTe ₂. Science, 2015, 349, 625-628.	12.6	918
2	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metalâ€“Organic Framework. ACS Nano, 2015, 9, 6288-6296.	14.6	890
3	Bandgap opening in few-layered monoclinic MoTe2. Nature Physics, 2015, 11, 482-486.	16.7	800
4	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. Nature Communications, 2014, 5, 3813.	12.8	741
5	Nanoarchitectures for Metalâ€“Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. Accounts of Chemical Research, 2016, 49, 2796-2806.	15.6	670
6	Nanopatterned Textile-Based Wearable Triboelectric Nanogenerator. ACS Nano, 2015, 9, 3501-3509.	14.6	612
7	A technology review of electrodes and reaction mechanisms in vanadium redox flow batteries. Journal of Materials Chemistry A, 2015, 3, 16913-16933.	10.3	565
8	Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. Nano Energy, 2015, 11, 211-218.	16.0	439
9	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. Journal of Materials Chemistry A, 2014, 2, 19848-19854.	10.3	419
10	Redox-Active Polymers for Energy Storage Nanoarchitectonics. Joule, 2017, 1, 739-768.	24.0	400
11	Rational Design of 3D Dendritic TiO₂ Nanostructures with Favorable Architectures. Journal of the American Chemical Society, 2011, 133, 19314-19317.	13.7	387
12	Nanoarchitectures for Mesoporous Metals. Advanced Materials, 2016, 28, 993-1010.	21.0	357
13	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. Chemical Science, 2017, 8, 3538-3546.	7.4	329
14	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. Scientific Reports, 2016, 6, 30295.	3.3	314
15	Sn_{4+x}P₃ @ Amorphous Snâ€P Composites as Anodes for Sodiumâ€Ion Batteries with Low Cost, High Capacity, Long Life, and Superior Rate Capability. Advanced Materials, 2014, 26, 4037-4042.	21.0	298
16	Ultrafine SnO₂nanoparticle 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.	10.3	297
17	Flyâ€Eye Inspired Superhydrophobic Antiâ€Fogging Inorganic Nanostructures. Small, 2014, 10, 3001-3006.	10.0	290
18	Conductive polymers for next-generation energy storage systems: recent progress and new functions. Materials Horizons, 2016, 3, 517-535.	12.2	272

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19	All-in-one energy harvesting and storage devices. Journal of Materials Chemistry A, 2016, 4, 7983-7999.	10.3	245
20	Ultrahigh performance supercapacitors utilizing coreâ€“shell nanoarchitectures from a metalâ€“organic framework-derived nanoporous carbon and a conducting polymer. Chemical Science, 2016, 7, 5704-5713.	7.4	236
21	Coreâ€“Shell Structured Silicon Nanoparticles@TiO_{2â€“x}/Carbon Mesoporous Microfiber Composite as a Safe and High-Performance Lithium-Ion Battery Anode. ACS Nano, 2014, 8, 2977-2985.	14.6	227
22	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.	2.8	213
23	Directional dependent piezoelectric effect in CVD grown monolayer MoS 2 for flexible piezoelectric nanogenerators. Nano Energy, 2016, 22, 483-489.	16.0	197
24	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485.	14.6	186
25	A case study on fibrous porous SnO 2 anode for robust, high-capacity lithium-ion batteries. Nano Energy, 2014, 10, 53-62.	16.0	179
26	Graphene-like holey Co3O4 nanosheets as a highly efficient catalyst for oxygen evolution reaction. Nano Energy, 2016, 30, 267-275.	16.0	179
27	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	14.6	165
28	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. Angewandte Chemie - International Edition, 2015, 54, 11073-11077.	13.8	160
29	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. Advanced Energy Materials, 2017, 7, 1602002.	19.5	160
30	Rechargeable lithiumâ€“air batteries: a perspective on the development of oxygen electrodes. Journal of Materials Chemistry A, 2016, 4, 14050-14068.	10.3	155
31	Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 15065-15072.	10.3	146
32	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. Physical Chemistry Chemical Physics, 2015, 17, 30963-30977.	2.8	142
33	3D Hierarchical Rutile TiO2 and Metal-free Organic Sensitizer Producing Dye-sensitized Solar Cells 8.6% Conversion Efficiency. Scientific Reports, 2014, 4, 5769.	3.3	142
34	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. Chemistry of Materials, 2015, 27, 1082-1089.	6.7	138
35	A new strategy for integrating abundant oxygen functional groups into carbon felt electrode for vanadium redox flow batteries. Scientific Reports, 2014, 4, 6906.	3.3	136
36	Biomolecular Piezoelectric Materials: From Amino Acids to Living Tissues. Advanced Materials, 2020, 32, e1906989.	21.0	134

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37	Direct Growth of Cobalt Hydroxide Rods on Nickel Foam and Its Application for Energy Storage. Chemistry - A European Journal, 2014, 20, 3084-3088.	3.3	127
38	Synthesis of Mesoporous TiO₂/SiO₂ Hybrid Films as an Efficient Photocatalyst by Polymeric Micelle Assembly. Chemistry - A European Journal, 2014, 20, 6027-6032.	3.3	123
39	Tunableâ€Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. Angewandte Chemie - International Edition, 2016, 55, 10037-10041.	13.8	122
40	Microscopic role of carbon on MgB2 wire for critical current density comparable to NbTi. NPG Asia Materials, 2012, 4, e3-e3.	7.9	120
41	Electrospun manganeseâ€“cobalt oxide hollow nanofibres synthesized via combustion reactions and their lithium storage performance. Nanoscale, 2015, 7, 8351-8355.	5.6	111
42	CNTs grown on nanoporous carbon from zeolitic imidazolate frameworks for supercapacitors. Chemical Communications, 2016, 52, 13016-13019.	4.1	109
43	Mesoporous Niâ€“Fe oxide multi-composite hollow nanocages for efficient electrocatalytic water oxidation reactions. Journal of Materials Chemistry A, 2017, 5, 4320-4324.	10.3	108
44	In-situ formation of MOF derived mesoporous Co3N/amorphous N-doped carbon nanocubes as an efficient electrocatalytic oxygen evolution reaction. Nano Research, 2019, 12, 1605-1611.	10.4	108
45	Piezo/triboelectric nanogenerators based on 2-dimensional layered structure materials. Nano Energy, 2019, 57, 680-691.	16.0	108
46	Bottom-Up Lithium Growth Triggered by Interfacial Activity Gradient on Porous Framework for Lithium-Metal Anode. ACS Energy Letters, 2020, 5, 3108-3114.	17.4	102
47	Surfactant-Directed Synthesis of Mesoporous Pd Films with Perpendicular Mesochannels as Efficient Electrocatalysts. Journal of the American Chemical Society, 2015, 137, 11558-11561.	13.7	100
48	Superior Electrocatalytic Activity of a Robust Carbonâ€Felt Electrode with Oxygenâ€Rich Phosphate Groups for Allâ€Vanadium Redox Flow Batteries. ChemSusChem, 2016, 9, 1329-1338.	6.8	95
49	Morphology-controllable 1Dâ€“3D nanostructured TiO2bilayer photoanodes for dye-sensitized solar cells. Chemical Communications, 2013, 49, 966-968.	4.1	94
50	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.	5.2	93
51	Hydrogen Silsequioxane-Derived Si/SiO_x Nanospheres for High-Capacity Lithium Storage Materials. ACS Applied Materials & Interfaces, 2014, 6, 9608-9613.	8.0	93
52	Zr⁴⁺ Doping in Li₄Ti₅O₁₂ Anode for Lithiumâ€Ion Batteries: Open Li⁺ Diffusion Paths through Structural Imperfection. ChemSusChem, 2014, 7, 1451-1457.	6.8	92
53	Electrospun Polyacrylonitrileâ€“Ionic Liquid Nanofibers for Superior PM_{2.5} Capture Capacity. ACS Applied Materials & Interfaces, 2016, 8, 7030-7036.	8.0	92
54	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. Bulletin of the Chemical Society of Japan, 2019, 92, 521-528.	3.2	88

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55	One-dimensional manganese-cobalt oxide nanofibres as bi-functional cathode catalysts for rechargeable metal-air batteries. Scientific Reports, 2015, 5, 7665.	3.3	86
56	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.	10.3	86
57	Hierarchically open-porous nitrogen-incorporated carbon polyhedrons derived from metal-organic frameworks for improved CDI performance. Chemical Engineering Journal, 2020, 382, 122996.	12.7	84
58	Tailored Materials for Highâ€Performance MgB₂ Wire. Advanced Materials, 2011, 23, 4942-4946.	21.0	76
59	Controlled growth of polythiophene nanofibers in TiO₂ nanotube arrays for supercapacitor applications. Journal of Materials Chemistry A, 2017, 5, 172-180.	10.3	76
60	Controlled Ag-driven superior rate-capability of Li4Ti5O12 anodes for lithium rechargeable batteries. Nano Research, 2013, 6, 365-372.	10.4	75
61	Au decorated core-shell structured Au@Pt for the glucose oxidation reaction. Sensors and Actuators B: Chemical, 2019, 278, 88-96.	7.8	71
62	Functionality of Dualâ€Phase Lithium Storage in a Porous Carbon Host for Lithiumâ€Metal Anode. Advanced Functional Materials, 2020, 30, 1910538.	14.9	68
63	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. Nano Energy, 2016, 28, 232-240.	16.0	67
64	Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€“Cyanide Hybrid Coordination Polymers. Chemistry - A European Journal, 2015, 21, 3605-3612.	3.3	64
65	Structurally and Electronically Designed TiO₂N_x Nanofibers for Lithium Rechargeable Batteries. ACS Applied Materials & Interfaces, 2013, 5, 691-696.	8.0	63
66	Scalable Integration of Li₅FeO₄ towards Robust, Highâ€Performance Lithiumâ€Ion Hybrid Capacitors. ChemSusChem, 2014, 7, 3138-3144.	6.8	63
67	Efficient wide range electrochemical bisphenol-A sensor by self-supported dendritic platinum nanoparticles on screen-printed carbon electrode. Sensors and Actuators B: Chemical, 2018, 255, 2800-2808.	7.8	63
68	Robust superhydrophobicity of hierarchical ZnO hollow microspheres fabricated by two-step self-assembly. Nano Research, 2013, 6, 726-735.	10.4	60
69	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. Energy and Environmental Science, 2011, 4, 4978.	30.8	59
70	Research Update: Hybrid energy devices combining nanogenerators and energy storage systems for self-charging capability. APL Materials, 2017, 5, .	5.1	59
71	Highly connected hierarchical textured TiO₂spheres as photoanodes for dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 8902-8909.	10.3	57
72	Fish-scale bio-inspired multifunctional ZnO nanostructures. NPG Asia Materials, 2015, 7, e232-e232.	7.9	56

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73	Li₂RuO₃ as an Additive for High-Energy Lithium-Ion Capacitors. Journal of Physical Chemistry C, 2013, 117, 11471-11478.	3.1	55
74	Rational design of coaxial structured carbon nanotubeâ€“manganese oxide (CNTâ€“MnO₂) for energy storage application. Nanotechnology, 2015, 26, 204004.	2.6	55
75	A Simple Silver Nanowire Patterning Method Based on Poly(Ethylene Glycol) Photolithography and Its Application for Soft Electronics. Scientific Reports, 2017, 7, 2282.	3.3	55
76	Mesoporous anatase single crystals for efficient Co(2+/3+)-based dye-sensitized solar cells. Nano Energy, 2015, 11, 557-567.	16.0	54
77	Two-step self-assembly of hierarchically-ordered nanostructures. Journal of Materials Chemistry A, 2015, 3, 11688-11699.	10.3	51
78	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. Angewandte Chemie - International Edition, 2016, 55, 12746-12750.	13.8	50
79	Synergistic effect of Indium and Gallium co-doping on growth behavior and physical properties of hydrothermally grown ZnO nanorods. Scientific Reports, 2017, 7, 41992.	3.3	50
80	A Threeâ€Dimensionally Structured Electrocatalyst: Cobaltâ€Embedded Nitrogenâ€Doped Carbon Nanotubes/Nitrogenâ€Doped Reduced Graphene Oxide Hybrid for Efficient Oxygen Reduction. Chemistry - A European Journal, 2017, 23, 637-643.	3.3	50
81	Rational design of MgB2 conductors toward practical applications. Cryogenics, 2014, 63, 160-165.	1.7	49
82	Edge Contact for Carrier Injection and Transport in MoS₂ Field-Effect Transistors. ACS Nano, 2019, 13, 13169-13175.	14.6	47
83	Bioâ€Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions. Advanced Functional Materials, 2014, 24, 2721-2726.	14.9	46
84	Structurally stabilized lithium-metal anode via surface chemistry engineering. Energy Storage Materials, 2021, 37, 315-324.	18.0	46
85	A Highly Resilient Mesoporous SiO_x Lithium Storage Material Engineered by Oilâ€“Water Templating. ChemSusChem, 2015, 8, 688-694.	6.8	45
86	The smallest quaternary ammonium salts with ether groups for high-performance electrochemical double layer capacitors. Chemical Science, 2016, 7, 1791-1796.	7.4	45
87	Synthesis of Cobalt Sulfide/Sulfur Doped Carbon Nanocomposites with Efficient Catalytic Activity in the Oxygen Evolution Reaction. Chemistry - A European Journal, 2016, 22, 18259-18264.	3.3	43
88	Ultra-High Performance, High-Temperature Superconducting Wires via Cost-effective, Scalable, Co-evaporation Process. Scientific Reports, 2015, 4, 4744.	3.3	42
89	Si/SiO_xâ€Conductive Polymer Coreâ€Shell Nanospheres with an Improved Conducting Path Preservation for Lithiumâ€Ion Battery. ChemSusChem, 2016, 9, 2754-2758.	6.8	42
90	Cubic aggregates of Zn2SnO4 nanoparticles and their application in dye-sensitized solar cells. Nano Energy, 2019, 57, 202-213.	16.0	42

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91	A Facile Approach for Constructing Conductive Polymer Patterns for Application in Electrochromic Devices and Flexible Microelectrodes. ACS Applied Materials & Interfaces, 2016, 8, 33175-33182.	8.0	40
92	Lithium metal storage in zeolitic imidazolate framework derived nanoarchitectures. Energy Storage Materials, 2020, 33, 95-107.	18.0	40
93	Ultrathin Noncontact-Mode Triboelectric Nanogenerator Triggered by Giant Dielectric Material Adaption. ACS Energy Letters, 0, , 1189-1197.	17.4	40
94	The effect of surface passivation on the structure of sulphur-rich PbS colloidal quantum dots for photovoltaic application. Nanoscale, 2015, 7, 5706-5711.	5.6	39
95	Mesoporous Manganese Phosphonate Nanorods as a Prospective Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 19739-19745.	8.0	38
96	Strategically Designed Zeolitic Imidazolate Frameworks for Controlling the Degree of Graphitization. Bulletin of the Chemical Society of Japan, 2018, 91, 1474-1480.	3.2	38
97	Large magnetic entropy change near room temperature in La0.7(Ca0.27Ag0.03)MnO3 perovskite. Journal of Alloys and Compounds, 2011, 509, 3699-3704.	5.5	37
98	Improved photovoltaic performance of dye-sensitized solar cells with modified self-assembling highly ordered mesoporous TiO2 photoanodes. Journal of Materials Chemistry, 2012, 22, 11711.	6.7	37
99	The effect of amorphous TiO₂ in P25 on dye-sensitized solar cell performance. Chemical Communications, 2018, 54, 381-384.	4.1	36
100	Facile potentiostatic preparation of functionalized polyterthiophene-anchored graphene oxide as a metal-free electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 5426-5433.	10.3	35
101	Aggregated mesoporous nanoparticles for high surface area light scattering layer TiO2 photoanodes in Dye-sensitized Solar Cells. Scientific Reports, 2017, 7, 10341.	3.3	35
102	Towards Vaporized Molecular Discrimination: A Quartz Crystal Microbalance (QCM) Sensor System Using Cobaltâ€Containing Mesoporous Graphitic Carbon. Chemistry - an Asian Journal, 2014, 9, 3238-3244.	3.3	33
103	Design of cobalt catalysed carbon nanotubes in bimetallic zeolitic imidazolate frameworks. Applied Surface Science, 2021, 547, 149134.	6.1	33
104	Continually adjustable oriented 1D TiO2 nanostructure arrays with controlled growth of morphology and their application in dye-sensitized solar cells. CrystEngComm, 2012, 14, 5472.	2.6	32
105	Strategic synthesis of mesoporous Pt-on-Pd bimetallic spheres templated from a polymeric micelle assembly. Journal of Materials Chemistry A, 2016, 4, 9169-9176.	10.3	32
106	Absorption dichroism of monolayer 1Tâ€²-MoTe ₂ in visible range. 2D Materials, 2016, 3, 031010.	4.4	32
107	Understanding chemically processed solar cells based on quantum dots. Science and Technology of Advanced Materials, 2017, 18, 334-350.	6.1	32
108	Correlation between critical current density and n-value in MgB2/Nb/Monel superconductor wires. Physica C: Superconductivity and Its Applications, 2010, 470, 1207-1210.	1.2	31

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109	Enhancement of transition temperature in FexSe0.5Te0.5 film via iron vacancies. Applied Physics Letters, 2014, 104, .	3.3	31
110	Rationally designed bimetallic Au@Pt nanoparticles for glucose oxidation. Scientific Reports, 2019, 9, 894.	3.3	31
111	Multiwalled carbon nanotube-derived superior electrical, mechanical and thermal properties in MgB2 wires. Scripta Materialia, 2014, 88, 13-16.	5.2	30
112	Highly Ordered Mesostructured Vanadium Phosphonate toward Electrode Materials for Lithiumâ€ion Batteries. Chemistry - A European Journal, 2017, 23, 4344-4352.	3.3	30
113	Tailoring Domain Morphology in Monolayer NbSe₂ and W_xNb_{1â€“x}Se₂ Heterostructure. ACS Nano, 2020, 14, 8784-8792.	14.6	30
114	Patchable and Implantable 2D Nanogenerator. Small, 2021, 17, e1903519.	10.0	30
115	Architecture designed ZnO hollow microspheres with wide-range visible-light photoresponses. Journal of Materials Chemistry C, 2013, 1, 6924.	5.5	29
116	Allâ€day wearable health monitoring system. EcoMat, 2022, 4, .	11.9	29
117	Mesoporous Hierarchical Anatase for Dye-sensitized Solar Cells Achieving Over 10% Conversion Efficiency. Electrochimica Acta, 2015, 153, 393-398.	5.2	28
118	A Bi-layer TiO₂ photoanode for highly durable, flexible dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 4679-4686.	10.3	27
119	Controlled delivery of drugs adsorbed onto porous Fe 3 O 4 structures by application of AC/DC magnetic fields. Microporous and Mesoporous Materials, 2016, 226, 243-250.	4.4	27
120	Solid cryogen: a cooling system for future MgB2 MRI magnet. Scientific Reports, 2017, 7, 43444.	3.3	27
121	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant <scp><scp>TiO</scp></scp>₂ for Superior Photovoltaic Performance. Journal of the American Ceramic Society, 2013, 96, 2636-2643.	3.8	26
122	Incorporation of conductive polymer into soft carbon electrodes for lithium ion capacitors. Journal of Power Sources, 2015, 299, 49-56.	7.8	26
123	Temperature-dependent piezotronic effect of MoS2 monolayer. Nano Energy, 2019, 58, 811-816.	16.0	26
124	The advent of manganese-substituted sodium vanadium phosphate-based cathodes for sodium-ion batteries and their current progress: a focused review. Journal of Materials Chemistry A, 2022, 10, 1022-1046.	10.3	26
125	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.	2.3	25
126	Deliberate Design of TiO₂ Nanostructures towards Superior Photovoltaic Cells. Chemistry - A European Journal, 2016, 22, 11357-11364.	3.3	25

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127	Synthesis and Cytotoxicity of Dendritic Platinum Nanoparticles with HEKâ€293 Cells. Chemistry - an Asian Journal, 2017, 12, 21-26.	3.3	25
128	Prussian Blueâ€Derived Synthesis of Hollow Porous Iron Pyrite Nanoparticles as Platinumâ€Free Counter Electrodes for Highly Efficient Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2017, 23, 13284-13288.	3.3	25
129	Evaluation of a solid nitrogen impregnated MgB₂ racetrack coil. Superconductor Science and Technology, 2018, 31, 105010.	3.5	25
130	Design of 2D Nanocrystalline Fe₂Ni₂N Coated onto Graphene Nanohybrid Sheets for Efficient Electrocatalytic Oxygen Evolution. ACS Applied Energy Materials, 2019, 2, 8502-8510.	5.1	25
131	Electrochemical properties of nonstoichiometric silicon suboxide anode materials with controlled oxygen concentration. Composites Part B: Engineering, 2019, 174, 107024.	12.0	25
132	Fabrication of Asymmetric Supercapacitors Based on Coordination Polymer Derived Nanoporous Materials. Electrochimica Acta, 2015, 183, 94-99.	5.2	24
133	Evaluation of persistent-mode operation in a superconducting MgB₂coil in solid nitrogen. Superconductor Science and Technology, 2016, 29, 04LT02.	3.5	24
134	Threeâ€Dimensional Superâ€Branched PdCu Nanoarchitectures Exposed on Controlled Crystal Facets. Chemistry - A European Journal, 2017, 23, 51-56.	3.3	24
135	Niobium-titanium (Nb-Ti) superconducting joints for persistent-mode operation. Scientific Reports, 2019, 9, 14287.	3.3	24
136	Morphology adjustable CoxN with 3D mesoporous structure and amorphous N-doped carbon for overall water splitting. Applied Surface Science, 2020, 529, 147177.	6.1	24
137	Magnetic nanoparticles for â€œsmart liposomesâ€. European Biophysics Journal, 2015, 44, 647-654.	2.2	23
138	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.	5.5	22
139	Structurally stabilized mesoporous TiO2 nanofibres for efficient dye-sensitized solar cells. APL Materials, 2013, 1, .	5.1	22
140	Electrochemical Synthesis of Mesoporous Pt Nanowires with Highly Electrocatalytic Activity toward Methanol Oxidation Reaction. Electrochimica Acta, 2015, 183, 107-111.	5.2	22
141	Fly compound-eye inspired inorganic nanostructures with extraordinary visible-light responses. Materials Today Chemistry, 2016, 1-2, 84-89.	3.5	22
142	Nickel-Iron nitrides and alloy heterojunction with amorphous N-doped carbon Shell: High-efficiency synergistic electrocatalysts for oxygen evolution reaction. Applied Surface Science, 2021, 566, 150706.	6.1	22
143	Mechanistic and nanoarchitectonics insight into Liâ€“host interactions in carbon hosts for reversible Li metal storage. Nano Energy, 2022, 95, 106999.	16.0	22
144	N719- and D149-sensitized 3D hierarchical rutile TiO₂ solar cellsâ€”a comparative study. Physical Chemistry Chemical Physics, 2015, 17, 7208-7213.	2.8	21

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145	Significantly enhanced critical current density in nano-MgB₂grains rapidly formed at low temperature with homogeneous carbon doping. Superconductor Science and Technology, 2015, 28, 055005.	3.5	21
146	MgB₂for MRI applications: dual sintering induced performance variations inin situand IMD processed MgB₂conductors. Journal of Materials Chemistry C, 2020, 8, 2507-2516.	5.5	21
147	Porous carbon architectures with different dimensionalities for lithium metal storage. Science and Technology of Advanced Materials, 2022, 23, 169-188.	6.1	21
148	Shape-controlled synthesis of mesoporous iron phosphate materials with crystallized frameworks. Chemical Communications, 2015, 51, 13806-13809.	4.1	20
149	Carbon doping induced imperfections on MgB2 superconducting wire. Journal of Analytical Science and Technology, 2015, 6, .	2.1	20
150	A new approach to a superconducting joining process for carbon-doped MgB₂conductor. Superconductor Science and Technology, 2016, 29, 095001.	3.5	19
151	Highly Efficient Thin-Film Transistor via Cross-Linking of 1T Edge Functional 2H Molybdenum Disulfides. ACS Nano, 2017, 11, 12832-12839.	14.6	19
152	AC Transport Current Loss of Horizontally Attached Bi-2223/Ag Tapes. IEEE Transactions on Applied Superconductivity, 2004, 14, 1894-1897.	1.7	18
153	MgB₂superconducting joints for persistent current operation. Superconductor Science and Technology, 2015, 28, 065017.	3.5	18
154	Superior transport J c obtained in in-situ MgB 2 wires by tailoring the starting materials and using a combined cold high pressure densification and hot isostatic pressure treatment. Scripta Materialia, 2017, 129, 79-83.	5.2	18
155	Ultra-thin, highly graphitized carbon nanosheets into three-dimensional interconnected framework utilizing a ball mill mixing of precursors. Chemical Engineering Journal, 2019, 374, 1214-1220.	12.7	18
156	Theoretically designed metal-welded carbon nanotubes: Extraordinary electronic properties and promoted catalytic performance. Nano Energy, 2017, 32, 209-215.	16.0	17
157	Strategic Approaches to the Dendritic Growth and Interfacial Reaction of Lithium Metal Anode. Chemistry - an Asian Journal, 2021, 16, 4010-4017.	3.3	17
158	Correlation between in-field Jc enhancement and grain connectivity in co-doped MgB2 superconductor. Materials Letters, 2015, 139, 333-335.	2.6	16
159	Synthesis of Carbon Nanospheres Through Carbonization of Areca nut. Journal of Nanoscience and Nanotechnology, 2017, 17, 2837-2842.	0.9	16
160	Solvothermally synthesized anatase TiO2 nanoparticles for photoanodes in dye-sensitized solar cells. Science and Technology of Advanced Materials, 2021, 22, 100-112.	6.1	16
161	Cobalt supported nitrogen-doped carbon nanotube as efficient catalyst for hydrogen evolution reaction and reduction of 4-nitrophenol. Applied Surface Science, 2022, 572, 151450.	6.1	16
162	Critical role of surface craters for improving the reversibility of Li metal storage in porous carbon frameworks. Nano Energy, 2021, 88, 106243.	16.0	16

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163	Superconducting joints using multifilament MgB2 wires for MRI application. Scripta Materialia, 2021, 204, 114156.	5.2	16
164	A study on joining method of Biâ€“Pbâ€“Srâ€“Caâ€“Cuâ€“O multifilamentary tape. Physica C: Superconductivity and Its Applications, 2002, 372-376, 909-912.	1.2	15
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