

Jung Ho Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9541866/publications.pdf>

Version: 2024-02-01

252
papers

18,661
citations

17440

63
h-index

13379

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 Metal-Organic Framework. ACS Nano, 2015, 9, 6288-6296.	14.6	890
3	Bandgap opening in few-layered monoclinic MoTe ₂ . 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 Metal-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 TiO ₂ 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} P ₃ @ Amorphous Sn-EP Composites as Anodes for Sodium-Ion Batteries with Low Cost, High Capacity, Long Life, and Superior Rate Capability. Advanced Materials, 2014, 26, 4037-4042.	21.0	298
16	Ultrafine SnO ₂ 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.	10.3	297
17	Fly-Eye Inspired Superhydrophobic Anti-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

#	ARTICLE	IF	CITATIONS
19	All-in-one energy harvesting and storage devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7983-7999.	10.3	245
20	Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. <i>Chemical Science</i> , 2016, 7, 5704-5713.	7.4	236
21	Core-Shell Structured Silicon Nanoparticles@TiO ₂ /Carbon Mesoporous Microfiber Composite as a Safe and High-Performance Lithium-Ion Battery Anode. <i>ACS Nano</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29308-29315.	2.8	213
23	Directional dependent piezoelectric effect in CVD grown monolayer MoS ₂ for flexible piezoelectric nanogenerators. <i>Nano Energy</i> , 2016, 22, 483-489.	16.0	197
24	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. <i>ACS Nano</i> , 2017, 11, 2477-2485.	14.6	186
25	A case study on fibrous porous SnO ₂ anode for robust, high-capacity lithium-ion batteries. <i>Nano Energy</i> , 2014, 10, 53-62.	16.0	179
26	Graphene-like holey Co ₃ O ₄ nanosheets as a highly efficient catalyst for oxygen evolution reaction. <i>Nano Energy</i> , 2016, 30, 267-275.	16.0	179
27	Everlasting Living and Breathing Gyroid 3D Network in Si@SiO _x /C Nanoarchitecture for Lithium Ion Battery. <i>ACS Nano</i> , 2019, 13, 9607-9619.	14.6	165
28	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. <i>Angewandte Chemie - International Edition</i> , 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. <i>Advanced Energy Materials</i> , 2017, 7, 1602002.	19.5	160
30	Rechargeable lithium-air batteries: a perspective on the development of oxygen electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14050-14068.	10.3	155
31	Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15065-15072.	10.3	146
32	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30963-30977.	2.8	142
33	3D Hierarchical Rutile TiO ₂ and Metal-free Organic Sensitizer Producing Dye-sensitized Solar Cells 8.6% Conversion Efficiency. <i>Scientific Reports</i> , 2014, 4, 5769.	3.3	142
34	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 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. <i>Scientific Reports</i> , 2014, 4, 6906.	3.3	136
36	Biomolecular Piezoelectric Materials: From Amino Acids to Living Tissues. <i>Advanced Materials</i> , 2020, 32, e1906989.	21.0	134

#	ARTICLE	IF	CITATIONS
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 TiO ₂ /SiO ₂ Hybrid Films as an Efficient Photocatalyst by Polymeric Micelle Assembly. Chemistry - A European Journal, 2014, 20, 6027-6032.	3.3	123
39	Tunable 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 MgB ₂ wire for critical current density comparable to NbTi. NPG Asia Materials, 2012, 4, e3-e3.	7.9	120
41	Electrospun manganese-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 Ni-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 Co ₃ N/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 Carbon-Felt Electrode with Oxygen-Rich Phosphate Groups for All-Vanadium Redox Flow Batteries. ChemSusChem, 2016, 9, 1329-1338.	6.8	95
49	Morphology-controllable 1D-3D nanostructured TiO ₂ bilayer 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 ₂ Nanospheres for High-Capacity Lithium Storage Materials. ACS Applied Materials & Interfaces, 2014, 6, 9608-9613.	8.0	93
52	Zr ⁴⁺ Doping in Li ₄ Ti ₅ O ₁₂ Anode for Lithium-Ion Batteries: Open Li ⁺ Diffusion Paths through Structural Imperfection. ChemSusChem, 2014, 7, 1451-1457.	6.8	92
53	Electrospun Polyacrylonitrile-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

#	ARTICLE	IF	CITATIONS
55	One-dimensional manganese-cobalt oxide nanofibres as bi-functional cathode catalysts for rechargeable metal-air batteries. <i>Scientific Reports</i> , 2015, 5, 7665.	3.3	86
56	Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12654-12660.	10.3	86
57	Hierarchically open-porous nitrogen-incorporated carbon polyhedrons derived from metal-organic frameworks for improved CDI performance. <i>Chemical Engineering Journal</i> , 2020, 382, 122996.	12.7	84
58	Tailored Materials for High-Performance MgB ₂ Wire. <i>Advanced Materials</i> , 2011, 23, 4942-4946.	21.0	76
59	Controlled growth of polythiophene nanofibers in TiO ₂ nanotube arrays for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 172-180.	10.3	76
60	Controlled Ag-driven superior rate-capability of Li ₄ Ti ₅ O ₁₂ anodes for lithium rechargeable batteries. <i>Nano Research</i> , 2013, 6, 365-372.	10.4	75
61	Au decorated core-shell structured Au@Pt for the glucose oxidation reaction. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 88-96.	7.8	71
62	Functionality of Dual-Phase Lithium Storage in a Porous Carbon Host for Lithium-Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 1910538.	14.9	68
63	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. <i>Nano Energy</i> , 2016, 28, 232-240.	16.0	67
64	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> , 2015, 21, 3605-3612.	3.3	64
65	Structurally and Electronically Designed TiO ₂ /N Nanofibers for Lithium Rechargeable Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 691-696.	8.0	63
66	Scalable Integration of Li ₅ FeO ₄ towards Robust, High-Performance Lithium-Ion Hybrid Capacitors. <i>ChemSusChem</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2800-2808.	7.8	63
68	Robust superhydrophobicity of hierarchical ZnO hollow microspheres fabricated by two-step self-assembly. <i>Nano Research</i> , 2013, 6, 726-735.	10.4	60
69	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. <i>Energy and Environmental Science</i> , 2011, 4, 4978.	30.8	59
70	Research Update: Hybrid energy devices combining nanogenerators and energy storage systems for self-charging capability. <i>APL Materials</i> , 2017, 5, .	5.1	59
71	Highly connected hierarchical textured TiO ₂ spheres as photoanodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8902-8909.	10.3	57
72	Fish-scale bio-inspired multifunctional ZnO nanostructures. <i>NPG Asia Materials</i> , 2015, 7, e232-e232.	7.9	56

#	ARTICLE	IF	CITATIONS
73	Li ₂ RuO ₃ 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 nanotube@manganese oxide (CNT@mno ₂) 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 Three-dimensionally Structured Electrocatalyst: Cobalt-Embedded Nitrogen-Doped Carbon Nanotubes/Nitrogen-Doped Reduced Graphene Oxide Hybrid for Efficient Oxygen Reduction. Chemistry - A European Journal, 2017, 23, 637-643.	3.3	50
81	Rational design of MgB ₂ conductors toward practical applications. Cryogenics, 2014, 63, 160-165.	1.7	49
82	Edge Contact for Carrier Injection and Transport in MoS ₂ Field-Effect Transistors. ACS Nano, 2019, 13, 13169-13175.	14.6	47
83	Bio-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 ₂ Lithium Storage Material Engineered by Oil-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 ₂ -Conductive Polymer Core-Shell Nanospheres with an Improved Conducting Path Preservation for Lithium-Ion Battery. ChemSusChem, 2016, 9, 2754-2758.	6.8	42
90	Cubic aggregates of Zn ₂ SnO ₄ nanoparticles and their application in dye-sensitized solar cells. Nano Energy, 2019, 57, 202-213.	16.0	42

#	ARTICLE	IF	CITATIONS
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 La _{0.7} (Ca _{0.27} Ag _{0.03})MnO ₃ 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 TiO ₂ photoanodes. Journal of Materials Chemistry, 2012, 22, 11711.	6.7	37
99	The effect of amorphous TiO ₂ 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 TiO ₂ 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 Cobalt-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 TiO ₂ 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 MgB ₂ /Nb/Monel superconductor wires. Physica C: Superconductivity and Its Applications, 2010, 470, 1207-1210.	1.2	31

#	ARTICLE	IF	CITATIONS
109	Enhancement of transition temperature in Fe _x Se _{0.5} Te _{0.5} 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 MgB ₂ wires. Scripta Materialia, 2014, 88, 13-16.	5.2	30
112	Highly Ordered Mesostructured Vanadium Phosphonate toward Electrode Materials for Lithium-ion Batteries. Chemistry - A European Journal, 2017, 23, 4344-4352.	3.3	30
113	Tailoring Domain Morphology in Monolayer NbSe ₂ and W ₂ NbSe ₂ 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	All-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 TiO ₂ 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 MgB ₂ MRI magnet. Scientific Reports, 2017, 7, 43444.	3.3	27
121	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant TiO 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 MoS ₂ 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 La _{0.7} Ca _{0.3} MnO ₃ material with a few percent Co doping. Journal of Magnetism and Magnetic Materials, 2011, 323, 138-143.	2.3	25
126	Deliberate Design of TiO ₂ Nanostructures towards Superior Photovoltaic Cells. Chemistry - A European Journal, 2016, 22, 11357-11364.	3.3	25

#	ARTICLE	IF	CITATIONS
127	Synthesis and Cytotoxicity of Dendritic Platinum Nanoparticles with HEK293 Cells. Chemistry - an Asian Journal, 2017, 12, 21-26.	3.3	25
128	Prussian Blue-Derived Synthesis of Hollow Porous Iron Pyrite Nanoparticles as Platinum-Free Counter Electrodes for Highly Efficient Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2017, 23, 13284-13288.	3.3	25
129	Evaluation of a solid nitrogen impregnated MgB ₂ racetrack coil. Superconductor Science and Technology, 2018, 31, 105010.	3.5	25
130	Design of 2D Nanocrystalline Fe ₂ Ni ₂ N 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 MgB ₂ coil in solid nitrogen. Superconductor Science and Technology, 2016, 29, 04LT02.	3.5	24
134	Three-Dimensional Super-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 "smart liposomes". European Biophysics Journal, 2015, 44, 647-654.	2.2	23
138	Effect of frozen spin on the magnetocaloric property of La _{0.7} Ca _{0.3} CoO ₃ polycrystalline and single crystal samples. Journal of Alloys and Compounds, 2012, 510, 125-133.	5.5	22
139	Structurally stabilized mesoporous TiO ₂ 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 Li-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 TiO ₂ solar cells—a comparative study. Physical Chemistry Chemical Physics, 2015, 17, 7208-7213.	2.8	21

#	ARTICLE	IF	CITATIONS
145	Significantly enhanced critical current density in nano-MgB ₂ grains rapidly formed at low temperature with homogeneous carbon doping. Superconductor Science and Technology, 2015, 28, 055005.	3.5	21
146	MgB ₂ for MRI applications: dual sintering induced performance variations in <i>in situ</i> and IMD processed MgB ₂ conductors. 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 MgB ₂ 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 MgB ₂ conductor. 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	MgB ₂ superconducting 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 J _c enhancement and grain connectivity in co-doped MgB ₂ superconductor. Materials Letters, 2015, 139, 333-335.	2.6	16
159	Synthesis of Carbon Nanospheres Through Carbonization of <i>Areca nut</i> . Journal of Nanoscience and Nanotechnology, 2017, 17, 2837-2842.	0.9	16
160	Solvothermally synthesized anatase TiO ₂ 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

#	ARTICLE	IF	CITATIONS
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 Bi-Pb-Sr-Ca-Cu-O multifilamentary tape. Physica C: Superconductivity and Its Applications, 2002, 372-376, 909-912.	1.2	15
165	Anisotropic and excellent magnetocaloric properties of La _{0.7} Ca _{0.3} MnO ₃ single crystal with anomalous magnetization. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 48-53.	3.5	15
166	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. Angewandte Chemie, 2016, 128, 12938-12942.	2.0	15
167	Tailored joint fabrication process derived ultra-low resistance MgB2 superconducting joint. Scripta Materialia, 2020, 178, 198-202.	5.2	15
168	A superconducting joint between Bi-Pb-Sr-Ca-Cu-O multifilamentary tapes. Superconductor Science and Technology, 2002, 15, 1600-1605.	3.5	14
169	Improved transport critical current properties in glycerin-doped MgB2 wire using milled boron powder and a solid-state reaction of 600°C. Journal of Alloys and Compounds, 2015, 650, 794-798.	5.5	14
170	Tunable-Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. Angewandte Chemie, 2016, 128, 10191-10195.	2.0	14
171	Unique nanocrystalline frameworks in mesoporous tin phosphate prepared through a hydrofluoric acid assisted chemical reaction. Journal of Materials Chemistry A, 2016, 4, 18091-18099.	10.3	14
172	Tunable porosity in bimetallic core-shell structured palladium-platinum nanoparticles for electrocatalysts. Scripta Materialia, 2019, 158, 38-41.	5.2	13
173	Design, fabrication and testing of superconducting dc reactor for 1.2 kV/80 a inductive fault current limiter. IEEE Transactions on Applied Superconductivity, 2003, 13, 2008-2011.	1.7	12
174	Influence of hot-pressing on MgB2/Nb/Monel wires. Physica C: Superconductivity and Its Applications, 2010, 470, 1426-1429.	1.2	12
175	Control of core structure in MgB2 wire through tailoring boron powder. Journal of Alloys and Compounds, 2015, 636, 29-33.	5.5	12
176	Preferential growth of boron layer in magnesium diboride (MgB2) by Mg diffusion method. Journal of Alloys and Compounds, 2017, 725, 526-535.	5.5	12
177	Optical logic operation via plasmon-exciton interconversion in 2D semiconductors. Scientific Reports, 2019, 9, 9164.	3.3	12
178	Superconducting Joining Concept for Internal Magnesium Diffusion-Processed Magnesium Diboride Wires. ACS Applied Materials & Interfaces, 2021, 13, 3349-3357.	8.0	12
179	Stabilizing Li-metal host anode with LiF-rich solid electrolyte interphase. Nano Convergence, 2021, 8, 18.	12.1	12
180	Synergetic Combination of LIMD With CHPD for the Production of Economical and High Performance MgB_2 Wires. IEEE Transactions on Applied Superconductivity, 2013, 23, 6200704-6200704.	1.7	11

#	ARTICLE	IF	CITATIONS
181	Si Nanocrystal-Embedded SiO _x nanofibers: Two-Dimensional Nanotechnology-Enabled High Performance Li Storage Materials. <i>Scientific Reports</i> , 2018, 8, 6904.	3.3	11
182	Measurement of joint properties of Bi(pb)-Sr-Ca-Cu-O (2223) tapes by field decay technique. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 2992-2995.	1.7	10
183	Cyano-bridged Trimetallic Coordination Polymer Nanoparticles and Their Thermal Decomposition into Nanoporous Spinel Ferromagnetic Oxides. <i>Chemistry - A European Journal</i> , 2016, 22, 15042-15048.	3.3	10
184	Preface for Special Topic: Nanogenerators. <i>APL Materials</i> , 2017, 5, .	5.1	10
185	Suppression of dendritic lithium-metal growth through concentrated dual-salt electrolyte and its accurate prediction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22833-22841.	10.3	10
186	Superconducting joint between Bi-Pb-Sr-Ca-Cu-O superconductor tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2000, 10, 1182-1185.	1.7	9
187	YBCO Film With Sm Addition Using Low-Fluorine TFA-MOD Approach. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 3208-3211.	1.7	9
188	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 & Interfaces</i> , 2015, 7, 26455-26460.	8.0	9
189	The formation of nano-layered grains and their enhanced superconducting transition temperature in Mg-doped FeSe _{0.9} bulks. <i>Scientific Reports</i> , 2015, 4, 6481.	3.3	9
190	Effect of W Addition on the Microstructure and Properties of Ni-W Substrates for Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 2683-2686.	1.7	8
191	Determination of the relative influences of carbon doping and disorder on field and temperature dependent critical current density of MgB ₂ . <i>Superconductor Science and Technology</i> , 2009, 22, 125005.	3.5	8
192	Structural control of d-f interaction in the CeFe _{1-x} Ru _x AsO system. <i>Europhysics Letters</i> , 2012, 99, 57009.	2.0	8
193	Microstructural and crystallographic imperfections of MgB ₂ superconducting wire and their correlation with the critical current density. <i>AIP Advances</i> , 2014, 4, .	1.3	8
194	Nanotechnology and its medical applications: revisiting public policies from a regulatory perspective in Australia. <i>Nanotechnology Reviews</i> , 2017, 6, 255-269.	5.8	8
195	Facile Synthesis of Palladium-nanoparticle-embedded N-doped Carbon Fibers for Electrochemical Sensing. <i>ChemPlusChem</i> , 2018, 83, 401-406.	2.8	8
196	Evaluation and control of residual amorphous phases in carbon-doped MgB ₂ superconductors. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158867.	5.5	8
197	MgB ₂ Superconducting Joint Architecture with the Functionality to Screen External Magnetic Fields for MRI Magnet Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3418-3426.	8.0	8
198	Characterization of thermal conductivity and mechanical properties of Ag-alloy sheathed Bi(Pb)-Sr-Ca-Cu-O superconductor tape. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 2956-2959.	1.7	7

#	ARTICLE	IF	CITATIONS
199	Superior MgB ₂ Superconducting Wire Performance through Oxygen-Free Pyrene Additive. Applied Physics Express, 2012, 5, 013101.	2.4	7
200	Power-Law Relationship Between Critical Current Density, Microstructure, and the n-Value in MgB ₂ Superconductor Wires. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1643-1645.	1.8	7
201	A Facile Preparation of Mesoporous Carbon Composites with Well-Dispersed Pd Nanoparticles and Their Utilization as Supports for Pt Catalysts. Electrochimica Acta, 2015, 183, 112-118.	5.2	7
202	Improvement in the transport critical current density and microstructure of isotopic Mg ₁₁ B ₂ monofilament wires by optimizing the sintering temperature. Scientific Reports, 2016, 6, 36660.	3.3	7
203	Doping-Induced Isotopic Mg ₁₁ B ₂ Bulk Superconductor for Fusion Application. Energies, 2017, 10, 409.	3.1	7
204	Oxygen-Deficient TiO ₂ - $\dot{\gamma}$ Synthesized from MIL-125 Metal-Organic Framework for Photocatalytic Dye Degradation. Bulletin of the Chemical Society of Japan, 2019, 92, 2012-2018.	3.2	7
205	Interplay between cold densification and malic acid addition (C ₄ H ₆ O ₅) for the fabrication of near-isotropic MgB ₂ conductors for magnet application. Journal of Magnesium and Alloys, 2020, 8, 493-498.	11.9	7
206	Intrinsic electrochemical activity of Ni in Ni ₃ Sn ₄ anode accommodating high capacity and mechanical stability for fast-charging lithium-ion batteries. Journal of Energy Chemistry, 2022, 71, 470-477.	12.9	7
207	Development and characteristics of persistent mode in HTS magnet. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1026-1029.	1.2	6
208	Stress/Strain Induced Flux Pinning in Highly Dense MgB ₂ Bulks. IEEE Transactions on Applied Superconductivity, 2009, 19, 2722-2725.	1.7	6
209	AC Loss in MgB ₂ Superconducting Wires at Various Operating Temperatures. IEEE Transactions on Applied Superconductivity, 2011, 21, 3342-3346.	1.7	6
210	The Effects of Graphene Doping on the In-Field J_c of MgB ₂ Wires. Journal of Nanoscience and Nanotechnology, 2012, 12, 1402-1405.	0.9	6
211	Channelled Porous TiO ₂ Synthesized with a Water-in-Oil Microemulsion. Chemistry - A European Journal, 2014, 20, 10451-10455.	3.3	6
212	Mechanically Stable Kirigami Deformable Resonant Circuits for Wireless Vibration and Pressure Sensor Applications. ACS Applied Materials & Interfaces, 2021, 13, 54162-54169.	8.0	6
213	Interfacial reaction and side effect of MgB ₂ superconducting material through low-rotation mechanical milling. Ceramics International, 2022, 48, 6539-6548.	4.8	6
214	Fabrication and Characteristics of the Joint Properties in Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _m Closed Double Pancake Coil. IEEE Transactions on Applied Superconductivity, 2004, 14, 1094-1097.	1.7	5
215	Development of Textured Ni Substrates for Coated Conductor Prepared by Powder Metallurgy and Plasma Arc Melting Method. IEEE Transactions on Applied Superconductivity, 2004, 14, 1086-1089.	1.7	5
216	Enhancing the Superconducting Properties of Magnesium Diboride Without Doping. Journal of the American Ceramic Society, 2013, 96, 2893-2897.	3.8	5

#	ARTICLE	IF	CITATIONS
217	Percolative nature of current transport in polycrystalline MgB ₂ wires. Solid State Communications, 2014, 181, 20-23.	1.9	5
218	Electrochemical Property of Mesoporous Crystalline Iron Phosphonate Anode in Li-Ion Rechargeable Battery. Journal of Nanoscience and Nanotechnology, 2016, 16, 9180-9185.	0.9	5
219	Formation of mesopores inside platinum nanospheres by using double hydrophilic block copolymers. Materials Letters, 2016, 182, 190-193.	2.6	5
220	Fundamental insight in the design of multifilament MgB ₂ joint for boosting the persistent-mode operation. Superconductor Science and Technology, 2021, 34, 125003.	3.5	5
221	Enriched Cavities to ZIF-8-Derived Porous Carbon for Reversible Metallic Lithium Storage. ACS Applied Energy Materials, 2021, 4, 14520-14525.	5.1	5
222	Magnetization Loss of Stacked Bi-2223/Ag Tapes in External Magnetic Field. IEEE Transactions on Applied Superconductivity, 2005, 15, 1607-1610.	1.7	4
223	Lattice Parameter, Lattice Disorder and Resistivity of Carbohydrate Doped MgB ₂ and Their Correlation with the Transition Temperature. Journal of Nanoscience and Nanotechnology, 2009, 9, 7477-80.	0.9	4
224	Magnetotransport dependence on the field magnitude and direction in large area epitaxial graphene film on stretchable substrates. Applied Physics Letters, 2013, 102, .	3.3	4
225	Surface-Tunable Bioluminescence Resonance Energy Transfer via Geometry-Controlled ZnO Nanorod Coordination. Small, 2015, 11, 3469-3475.	10.0	4
226	Ni-Co Binary Hydroxide Nanotubes with Three-Dimensionally Structured Nanoflakes: Synthesis and Application as Cathode Materials for Hybrid Supercapacitors. Chemistry - A European Journal, 2017, 23, 10133-10138.	3.3	4
227	Focus on nanogenerators: toward smart wearable devices. Science and Technology of Advanced Materials, 2020, 21, 422-423.	6.1	4
228	Hydrogen evolution reaction catalyst with high catalytic activity by interplay between organic molecules and transition metal dichalcogenide monolayers. Materials Today Energy, 2022, 25, 100976.	4.7	4
229	Superhydrophobic Materials: Fly-Eye Inspired Superhydrophobic Anti-Fogging Inorganic Nanostructures (Small 15/2014). Small, 2014, 10, 3000-3000.	10.0	3
230	A Comparative Study of TiO ₂ Paste Preparation Methods Using Solvothermally Synthesised Anatase Nanoparticles in Dye-Sensitised Solar Cells. Applied Sciences (Switzerland), 2019, 9, 979.	2.5	3
231	Superconducting joint of multifilamentary Bi(Pb)-Sr-Ca-Cu-O tapes. IEEE Transactions on Applied Superconductivity, 2003, 13, 2996-2999.	1.7	2
232	The effects of C substitution and disorder on the field dependent critical current density in MgB ₂ with nano-SiC additions. Physica C: Superconductivity and Its Applications, 2010, 470, 1211-1215.	1.2	2
233	Chiral Recognition of Proline Enantiomers by the Catalytic Oxygen Reduction and Formation of Cu(II)-Polymer Complex Crystals. Electroanalysis, 2014, 26, 2110-2117.	2.9	2
234	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, 3509-3509.	3.3	2

#	ARTICLE	IF	CITATIONS
235	Facile synthesis of nanoporous $\text{Li}_{1-x}\text{V}_x\text{O}_2$ @C composites as promising anode materials for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9156-9163.	2.8	2
236	Fabrication, Transport Current Testing, and Finite Element Analysis of MgB_2 Racetrack Coils. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 2957-2962.	1.8	2
237	ZnO/NiO Core/Shell Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , 2020, 8, 2000462.	3.8	2
238	Magnesium diboride (MgB_2) wires for applications. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , 2016, 18, 1-5.	0.3	2
239	Resistive Water Level Sensors Based on AgNWs/PEDOT:PSS- <i>g</i> -PEGME Hybrid Film for Agricultural Monitoring Systems. <i>ACS Omega</i> , 2022, 7, 15459-15466.	3.5	2
240	Prediction of AC Losses in MgB_2 Superconducting Wires as a Function of Transport Currents and Temperatures. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 6200404-6200404.	1.7	1
241	Magnetization Loss of MgB_2 Superconducting Wire at Various Temperatures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1531-1535.	1.8	1
242	ZnO/NiO Core/Shell Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , 2020, 8, 2070103.	3.8	1
243	Critical current degradation in jointed area of Ag-sheathed BSCCO tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3014-3017.	1.7	0
244	Development of Textured Au Layer on Ni Substrate for YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 2675-2678.	1.7	0
245	Superconducting Properties of MgB_2 Wire Using Ball-Milled Low Purity Boron. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 2714-2717.	1.7	0
246	Nanoengineered Superconducting Wire: Tailored Materials for High Performance MgB_2 Wire (Adv. Mater. 42/2011). <i>Advanced Materials</i> , 2011, 23, 4820-4820.	21.0	0
247	Characterization of Superconducting BSCCO/ CaSiO_3 and BSCCO/ CaZrO_3 Ag PIT Wires. <i>Advanced Materials Research</i> , 2014, 975, 106-110.	0.3	0
248	Surface Chemistry: Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions (Adv. Funct. Mater. 18/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2720-2720.	14.9	0
249	Cover Picture: Controlled Synthesis of Nanoporous Nickel Oxide with Two-Dimensional Shapes through Thermal Decomposition of Metal-Cyanide Hybrid Coordination Polymers (Chem. Eur. J.) Tj ETQq1 1 0.784314 rgB/Overlo	13.14	0
250	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> , 2017, 23, 13263-13263.	3.3	0
251	2D Nanogenerators: Patchable and Implantable 2D Nanogenerator (Small 9/2021). <i>Small</i> , 2021, 17, 2170039.	10.0	0
252	7 T Niobium-Titanium-Based Persistent-Mode Superconducting Magnet for an Electron Beam Ion Source. <i>IEEE Access</i> , 2022, 10, 14731-14738.	4.2	0