

Dong-Wan Kim

List of Publications by Year in descending order

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302
papers

12,677
citations

32410

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all docs

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docs citations

311
times ranked

17055
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood clot-inspired viscoelastic fibrin gel: New aqueous binder for silicon anodes in lithium ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 730-740.	9.5	22
2	Photovoltaic powered solar hydrogen production coupled with waste SO ₂ valorization enabled by MoP electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121045.	10.8	11
3	Rational design of porous Ru-doped CuO nanoarray on carbon cloth: Toward reversible catalyst layer for efficient Li ₂ O ₂ batteries. <i>International Journal of Energy Research</i> , 2022, 46, 8120-8129.	2.2	5
4	Metal organic framework-based nanostructure materials: applications for non-lithium ion battery electrodes. <i>CrystEngComm</i> , 2022, 24, 2925-2947.	1.3	18
5	Elucidating the Synergistic Behavior of Orientation-Controlled SnS Nanoplates and Carbon Layers for High-Performance Lithium and Sodium Ion Batteries (<i>Adv. Energy Mater.</i> 8/2022). <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	1
6	Elucidating the Synergistic Behavior of Orientation-Controlled SnS Nanoplates and Carbon Layers for High-Performance Lithium and Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	25
7	Porous carbon cubes decorated with cobalt nanoparticles for oxygen evolution catalysis in Zn-air batteries. <i>International Journal of Energy Research</i> , 2022, 46, 6755-6765.	2.2	1
8	Metal-organic-framework-derived vanadium(III) phosphate nanoaggregates for zinc-ion battery cathodes with long-term cycle stability. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10638-10650.	5.2	19
9	Enhanced hydrogen evolution activities of the hollow surface-oxidized cobalt phosphide nanofiber electrocatalysts in alkaline media. <i>International Journal of Energy Research</i> , 2022, 46, 13035-13043.	2.2	8
10	One-pot aprotic solvent-enabled synthesis of superionic Li ₂ S ₂ O ₇ solid electrolyte. <i>International Journal of Energy Research</i> , 2022, 46, 17644-17653.	2.2	4
11	Highly Efficient Perovskite-Based Electrocatalysts for Water Oxidation in Acidic Environments: A Mini Review. <i>Advanced Energy Materials</i> , 2021, 11, 2002428.	10.2	92
12	Rational design of S, N Co-doped reduced graphene oxides/pyrrhotite Fe ₇ S ₈ as free-standing anodes for large-scale, ultrahigh-rate and long-lifespan Li- and Na-ion batteries. <i>Applied Surface Science</i> , 2021, 540, 148358.	3.1	13
13	Electrospun-cellulose derived free-standing carbon nanofibers as lightweight, ultrathin, and stackable interlayers for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 405, 126596.	6.6	26
14	Orthorhombically distorted perovskite SeZnO ₃ nanosheets as an electrocatalyst for lithium-oxygen batteries. <i>Chemical Engineering Journal</i> , 2021, 406, 126896.	6.6	16
15	Toxicity of orally administered food-grade titanium dioxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2021, 41, 1127-1147.	1.4	21
16	Effect of PM ₁₀ on pulmonary immune response and fetus development. <i>Toxicology Letters</i> , 2021, 339, 1-11.	0.4	11
17	Wide pH range electrocatalytic hydrogen evolution using molybdenum phosphide nanoparticles uniformly anchored on porous carbon cloth. <i>Ceramics International</i> , 2021, 47, 9347-9353.	2.3	5
18	FeSe hollow spheroids as electrocatalysts for high-rate Li-O ₂ battery cathodes. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158269.	2.8	10

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19	Enhanced sodium storage performance of silk fibroin-derived hollow iron sulfide with potential window control. <i>International Journal of Energy Research</i> , 2021, 45, 4755-4764.	2.2	4
20	Three-dimensional construction of electrode materials using TiC nanoarray substrates for highly efficient electrogeneration of sulfate radicals and molecular hydrogen in a single electrolysis cell. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11705-11717.	5.2	5
21	Free-standing molybdenum disulfides on porous carbon cloth for lithium-ion battery anodes. <i>International Journal of Energy Research</i> , 2021, 45, 11329-11337.	2.2	7
22	Repeated intratracheal instillation of zinc oxide nanoparticles induced pulmonary damage and a systemic inflammatory response in cynomolgus monkeys. <i>Nanotoxicology</i> , 2021, 15, 621-635.	1.6	4
23	Progress and Prospects on the Fabrication of Graphene-Based Nanostructures for Energy Storage, Energy Conversion and Biomedical Applications. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1365-1381.	1.7	7
24	Vertically Aligned Sulfiphilic Cobalt Disulfide Nanosheets Supported on a Free-Standing Carbon Nanofiber Interlayer for High-Performance Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8487-8496.	3.2	4
25	Fibrin biopolymer hydrogel-templated 3D interconnected Si@C framework for lithium ion battery anodes. <i>Applied Surface Science</i> , 2021, 551, 149439.	3.1	9
26	Ultrafine CoP nanoparticles encapsulated in N/P dual-doped carbon cubes derived from 7,7,8,8-tetracyanoquinodimethane for lithium-ion batteries. <i>Applied Surface Science</i> , 2021, 555, 149716.	3.1	9
27	Kinetic insight into perovskite $\text{La}_{0.8}\text{Sr}_{0.2}\text{VO}_3$ nanofibers as an efficient electrocatalytic cathode for high-rate Li_2O_2 batteries. <i>Informa Mater. J.</i> , 2021, 3, 1295-1310.	8.5	30
28	Porous Lithiophilic Li-Si Alloy-Type Interfacial Framework via Self-Discharge Mechanism for Stable Lithium Metal Anode with Superior Rate. <i>Advanced Energy Materials</i> , 2021, 11, 2101544.	10.2	56
29	TCNQ-derived N/S dual-doped carbon cube electrocatalysts with built-in CoS ₂ nanoparticles for high-rate lithium-oxygen batteries. <i>Chemical Engineering Journal</i> , 2021, 418, 129367.	6.6	6
30	Ru ₂ P nanofibers for high-performance anion exchange membrane water electrolyzer. <i>Chemical Engineering Journal</i> , 2021, 420, 130491.	6.6	19
31	Multiple pathways of alveolar macrophage death contribute to pulmonary inflammation induced by silica nanoparticles. <i>Nanotoxicology</i> , 2021, 15, 1087-1101.	1.6	12
32	Amorphous hydrated vanadium oxide with enlarged interlayer spacing for aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 420, 130528.	6.6	42
33	Vertically aligned Si@reduced graphene oxide frameworks for binder-free high areal capacity Li-ion battery anodes. <i>International Journal of Energy Research</i> , 2021, 45, 9704-9712.	2.2	4
34	Mechanically Interlocked Polymer Electrolyte with Built-in Fast Molecular Shuttles for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102583.	10.2	27
35	Porous Lithiophilic Li-Si Alloy-Type Interfacial Framework via Self-Discharge Mechanism for Stable Lithium Metal Anode with Superior Rate (Adv. Energy Mater. 37/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170146.	10.2	2
36	Mechanically Interlocked Polymer Electrolyte with Built-in Fast Molecular Shuttles for All-Solid-State Lithium Batteries (Adv. Energy Mater. 44/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170173.	10.2	0

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37	Back Cover Image. Informa <i>Materials</i> , 2021, 3, .	8.5	0
38	Nickel disulfide nanosheet as promising cathode electrocatalyst for long-life lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2020, 24, 594-601.	9.5	21
39	Silica-templated hierarchically porous carbon modified separators for lithium-sulfur batteries with superior cycling stabilities. <i>Journal of Power Sources</i> , 2020, 448, 227462.	4.0	25
40	Electrocatalytic Selective Oxygen Evolution of Carbon-Coated Na ₂ Co _{1-x} Fe _x P ₂ O ₇ Nanoparticles for Alkaline Seawater Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 702-709.	5.5	141
41	Inhaled underground subway dusts may stimulate multiple pathways of cell death signals and disrupt immune balance. <i>Environmental Research</i> , 2020, 191, 109839.	3.7	6
42	A synergistic engineering layer with a versatile H ₂ Ti ₃ O ₇ electrocatalyst for a suppressed shuttle effect and enhanced catalytic conversion in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25411-25424.	5.2	18
43	Organogermanium Nanowire Cathodes for Efficient Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2020, 14, 15894-15903.	7.3	8
44	Peroxydisulfate activation by carbon-encapsulated metal nanoparticles: Switching the primary reaction route and increasing chemical stability. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119360.	10.8	60
45	Formation of lamellar body-like structure may be an initiator of didecyldimethylammonium chloride-induced toxic response. <i>Toxicology and Applied Pharmacology</i> , 2020, 404, 115182.	1.3	6
46	In Situ Conversion of Metal-Organic Frameworks into VO ₂ -V ₃ S ₄ Heterocatalyst Embedded Layered Porous Carbon as an All-in-One Host for Lithium-Sulfur Batteries. <i>Small</i> , 2020, 16, e2004806.	5.2	35
47	High-power lithium-ion capacitor using orthorhombic Nb ₂ O ₅ nanotubes enabled by cellulose-based electrospun scaffolds. <i>Cellulose</i> , 2020, 27, 9991-10006.	2.4	3
48	Highly active and stable electrocatalytic transition metal phosphides (Ni ₂ P) current density. <i>International Journal of Energy Research</i> , 2020, 44, 11894-11907.	2.2	7
49	Separators Modified Using MoO ₂ @Carbon Nanotube Nanocomposites as Dual-Mode Li-Polysulfide Anchoring Materials for High-Performance Anti-Self-Discharge Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15134-15148.	3.2	18
50	Sodium-Nickel pyrophosphate as a novel oxygen evolution electrocatalyst in alkaline medium. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4748-4753.	1.9	6
51	Waste glass microfiber filter-derived fabrication of fibrous yolk-shell structured silicon/carbon composite freestanding electrodes for lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2020, 468, 228407.	4.0	28
52	Metal-organic-framework-derived 3D crumpled carbon nanosheets with self-assembled CoxSy nanocatalysts as an interlayer for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 400, 125959.	6.6	35
53	Carbon-coated tungsten diselenide nanosheets uniformly assembled on porous carbon cloth as flexible binder-free anodes for sodium-ion batteries with improved electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154348.	2.8	16
54	Cobalt phosphide nanoarrays with crystalline-amorphous hybrid phase for hydrogen production in universal-pH. <i>Nano Research</i> , 2020, 13, 2469-2477.	5.8	54

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55	Redox effect of Fe ²⁺ /Fe ³⁺ in iron phosphates for enhanced electrocatalytic activity in Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2020, 388, 124294.	6.6	22
56	Dynamic evolution of a hydroxylated layer in ruthenium phosphide electrocatalysts for an alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5655-5662.	5.2	25
57	Efficient waste polyvinyl(butyrac) and cellulose composite enabled carbon nanofibers for oxygen reduction reaction and water remediation. <i>Applied Surface Science</i> , 2020, 510, 145505.	3.1	13
58	Repeated-oral dose toxicity of polyethylene microplastics and the possible implications on reproduction and development of the next generation. <i>Toxicology Letters</i> , 2020, 324, 75-85.	0.4	120
59	Amorphous silica nanoparticle-induced pulmonary inflammatory response depends on particle size and is sex-specific in rats. <i>Toxicology and Applied Pharmacology</i> , 2020, 390, 114890.	1.3	10
60	A Finite Element Simulation for Induction Heat Treatment of Automotive Drive Shaft. <i>ISIJ International</i> , 2020, 60, 1333-1341.	0.6	4
61	Waste Liquid-Crystal Display Glass-Directed Fabrication of Silicon Particles for Lithium-Ion Battery Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15329-15338.	3.2	13
62	Brain-Like Mesoporous Hollow CoS ₂ @N-Doped Graphitic Carbon Nanoshells as Efficient Sulfur Reservoirs for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903712.	7.8	108
63	Lithium-Sulfur Batteries: Brain-Like Mesoporous Hollow CoS ₂ @N-Doped Graphitic Carbon Nanoshells as Efficient Sulfur Reservoirs for Lithium-Sulfur Batteries (Adv. Funct. Mater.) Tj ETQq1 1 0.7848 14 rgBI /Overlo	7.8	108
64	Onion-like crystalline WS ₂ nanoparticles anchored on graphene sheets as high-performance anode materials for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 375, 122033.	6.6	49
65	Synthesis and characterization of uniform hollow TiO ₂ nanofibers using electrospun fibrous cellulosic templates for lithium-ion battery electrodes. <i>Journal of Alloys and Compounds</i> , 2019, 800, 483-489.	2.8	26
66	CeO ₂ /Co(OH) ₂ hybrid electrocatalysts for efficient hydrogen and oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2019, 800, 450-455.	2.8	53
67	Comparative study on ternary spinel cathode ZnMnO microspheres for aqueous rechargeable zinc-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 800, 478-482.	2.8	23
68	Superior anodic oxidation in tailored Sb-doped SnO ₂ /RuO ₂ composite nanofibers for electrochemical water treatment. <i>Journal of Catalysis</i> , 2019, 374, 118-126.	3.1	31
69	Hierarchical Zn _{1.67} Mn _{1.33} O ₄ /graphene nanoaggregates as new anode material for lithium-ion batteries. <i>International Journal of Energy Research</i> , 2019, 43, 1735-1746.	2.2	11
70	Ultrafine ϵ -Phase Molybdenum Carbide Decorated with Platinum Nanoparticles for Efficient Hydrogen Production in Acidic and Alkaline Media. <i>Advanced Science</i> , 2019, 6, 1802135.	5.6	54
71	S,N co-doped reduced graphene oxide sheets with cobalt hydroxide nanocrystals for highly active and stable bifunctional oxygen catalysts. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3501-3509.	3.0	8
72	Cellulose-derived tin-oxide-nanoparticle-embedded carbon fibers as binder-free flexible Li-ion battery anodes. <i>Cellulose</i> , 2019, 26, 2557-2571.	2.4	23

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73	Lithium-Oxygen Batteries: Tailored Porous ZnCo ₂ O ₄ Nanofibrous Electrocatalysts for Lithium-Oxygen Batteries (Adv. Mater. Interfaces 4/2018). Advanced Materials Interfaces, 2018, 5, 1870015.	1.9	2
74	Thermally reduced rGO-wrapped CoP/Co ₂ P hybrid microflower as an electrocatalyst for hydrogen evolution reaction. Journal of the American Ceramic Society, 2018, 101, 3749-3754.	1.9	24
75	Magnéli-Phase Ti ₄ O ₇ Nanosphere Electrocatalyst Support for Carbon-Free Oxygen Electrodes in Lithium-Oxygen Batteries. ACS Catalysis, 2018, 8, 2601-2610.	5.5	50
76	Waste Windshield-Derived Silicon/Carbon Nanocomposites as High-Performance Lithium-Ion Battery Anodes. Scientific Reports, 2018, 8, 960.	1.6	38
77	Controlled phase stability of highly Na-active triclinic structure in nanoscale high-voltage Na _{2-x} Co _{1+x} P ₂ O ₇ cathode for Na-ion batteries. Journal of Power Sources, 2018, 377, 121-127.	4.0	8
78	Fast adsorption kinetics of highly dispersed ultrafine nickel/carbon nanoparticles for organic dye removal. Applied Surface Science, 2018, 439, 364-370.	3.1	67
79	Tailored Porous ZnCo ₂ O ₄ Nanofibrous Electrocatalysts for Lithium-Oxygen Batteries. Advanced Materials Interfaces, 2018, 5, 1701234.	1.9	9
80	Carbon-encapsulated multi-phase nanocomposite of W ₂ C@WC _{1-x} as a highly active and stable electrocatalyst for hydrogen generation. Nanoscale, 2018, 10, 21123-21131.	2.8	26
81	Single and polycrystalline CeO ₂ nanorods as oxygen-electrode materials for lithium-oxygen batteries. Nanoscale, 2018, 10, 21292-21297.	2.8	14
82	3D Architectures of Quaternary CoNiS ₂ /Graphene Hybrids as Highly Active and Stable Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1802319.	10.2	107
83	Synergistic Effect of CuGeO ₃ /Graphene Composites for Efficient Oxygen-Electrode Electrocatalysts in Li-O ₂ Batteries. Advanced Energy Materials, 2018, 8, 1801930.	10.2	37
84	Carbon-encapsulated NiFe nanoparticles as a bifunctional electrocatalyst for high-efficiency overall water splitting. Journal of Catalysis, 2018, 366, 266-274.	3.1	54
85	3D Architectures of Co _x P Using Silk Fibroin Scaffolds: An Active and Stable Electrocatalyst for Hydrogen Generation in Acidic and Alkaline Media. Small, 2018, 14, e1801284.	5.2	32
86	Revisiting the conversion reaction in ultrafine SnO ₂ nanoparticles for exceptionally high-capacity Li-ion battery anodes: The synergetic effect of graphene and copper. Journal of Alloys and Compounds, 2018, 769, 1113-1120.	2.8	9
87	Fabrication of Mo/MoO ₂ @carbon cloth as a flexible anode for Li-ion batteries using water-stable nanoink. Carbon, 2018, 139, 1160-1164.	5.4	8
88	Oxygen-vacancy-modified brookite TiO ₂ nanorods as visible-light-responsive photocatalysts. Materials Letters, 2018, 232, 146-149.	1.3	17
89	Comparison of subchronic immunotoxicity of four different types of aluminum-based nanoparticles. Journal of Applied Toxicology, 2018, 38, 575-584.	1.4	12
90	Enhanced cycle stability of silicon coated with waste poly(vinyl butyral)-directed carbon for lithium-ion battery anodes. Journal of Alloys and Compounds, 2017, 698, 525-531.	2.8	22

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91	Superior lithium storage in nitrogen-doped carbon nanofibers with open-channels. <i>Chemical Engineering Journal</i> , 2017, 315, 1-9.	6.6	28
92	Pulmonary glass particles may persist in the lung suppressing function of immune cells. <i>Environmental Toxicology</i> , 2017, 32, 1688-1700.	2.1	2
93	An approach to flexible Na-ion batteries with exceptional rate capability and long lifespan using $\text{Na}_2\text{Fe}_2\text{O}_7$ nanoparticles on porous carbon cloth. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5502-5510.	5.2	64
94	MnMoO_4 Electrocatalysts for Superior Long-Life and High-Rate Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601741.	10.2	53
95	Synthesis of $\text{Cu}_3(\text{MoO}_4)_2(\text{OH})_2$ nanostructures by simple aqueous precipitation: understanding the fundamental chemistry and growth mechanism. <i>CrystEngComm</i> , 2017, 19, 154-165.	1.3	17
96	Tissue distribution following 28 day repeated oral administration of aluminum-based nanoparticles with different properties and the in vitro toxicity. <i>Journal of Applied Toxicology</i> , 2017, 37, 1408-1419.	1.4	9
97	Uniform Si nanoparticle-embedded nitrogen-doped carbon nanofiber electrodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 728, 490-496.	2.8	27
98	Fe-based hybrid electrocatalysts for nonaqueous lithium-oxygen batteries. <i>Scientific Reports</i> , 2017, 7, 9495.	1.6	11
99	Mo-MoO ₃ -graphene nanocomposites as anode materials for lithium-ion batteries: scalable, facile preparation and characterization. <i>Electrochimica Acta</i> , 2017, 251, 81-90.	2.6	35
100	Superior sodium storage performance of reduced graphene oxide-supported $\text{Na}_{3.12}\text{Fe}_{2.44}(\text{P}_2\text{O}_7)_2/\text{C}$ nanocomposites. <i>Chemical Communications</i> , 2017, 53, 9316-9319.	2.2	25
101	Carbon-decorated iron oxide hollow granules formed using a silk fibrous template: lithium-oxygen battery and wastewater treatment applications. <i>NPG Asia Materials</i> , 2017, 9, e450-e450.	3.8	21
102	Synthesis of Flower-like $\text{Cu}_3[\text{MoO}_4]_2\text{O}$ from $\text{Cu}_3(\text{MoO}_4)_2(\text{OH})_2$ and Its Application for Lithium-Ion Batteries: Structure-Electrochemical Property Relationships. <i>ChemElectroChem</i> , 2017, 4, 2608-2617.	1.7	9
103	Tailored silicon hollow spheres with <i>Micrococcus</i> for Li ion battery electrodes. <i>Chemical Engineering Journal</i> , 2017, 327, 297-306.	6.6	34
104	Fabrication of highly porous carbon as sulfur hosts using waste green tea bag powder for lithium-sulfur batteries. <i>Ceramics International</i> , 2017, 43, 2836-2841.	2.3	17
105	Pulmonary persistence of graphene nanoplatelets may disturb physiological and immunological homeostasis. <i>Journal of Applied Toxicology</i> , 2017, 37, 296-309.	1.4	28
106	Electrocatalytic performance of CuO/graphene nanocomposites for Li-O_2 batteries. <i>Journal of Alloys and Compounds</i> , 2017, 707, 275-280.	2.8	14
107	Biodistribution and toxicity of spherical aluminum oxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2016, 36, 424-433.	1.4	42
108	Three-Dimensional Hybrid Tin Oxide/Carbon Nanowire Arrays for High-Performance Li Ion Battery Electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10588-10591.	0.9	2

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109	Enhanced Lithium Storage in Hierarchically Porous Carbon Derived from Waste Tea Leaves. <i>Scientific Reports</i> , 2016, 6, 39099.	1.6	37
110	A higher aspect ratio enhanced bioaccumulation and altered immune responses due to intravenously-injected aluminum oxide nanoparticles. <i>Journal of Immunotoxicology</i> , 2016, 13, 439-448.	0.9	13
111	One-pot low-temperature sonochemical synthesis of CuO nanostructures and their electrochemical properties. <i>Ceramics International</i> , 2016, 42, 19454-19460.	2.3	15
112	Li-electroactivity of thermally-reduced V ₂ O ₃ nanoparticles. <i>Materials Letters</i> , 2016, 180, 243-246.	1.3	15
113	Enhanced Lithium Storage in Reduced Graphene Oxide-supported M-phase Vanadium(IV) Dioxide Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 30202.	1.6	22
114	Heteroepitaxy-Induced Rutile VO ₂ with Abundantly Exposed (002) Facets for High Lithium Electroactivity. <i>ACS Energy Letters</i> , 2016, 1, 216-224.	8.8	23
115	Comparison of distribution and toxicity following repeated oral dosing of different vanadium oxide nanoparticles in mice. <i>Environmental Research</i> , 2016, 150, 154-165.	3.7	24
116	Glass-frit size dependence of densification behavior and mechanical properties of zinc aluminum calcium borosilicate glass-ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 686, 95-100.	2.8	5
117	Fabrication of sulfur-impregnated porous carbon nanostructured electrodes via dual-mode activation for lithium-sulfur batteries. <i>Materials Letters</i> , 2016, 172, 116-119.	1.3	15
118	Synthesis of Silicon Carbide Nanocrystals Using Waste Poly(vinyl butyral) Sheet. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1885-1888.	1.9	14
119	Enhanced Li- and Na-storage in Sb-Graphene nanocomposite anodes. <i>Materials Research Bulletin</i> , 2016, 76, 338-343.	2.7	26
120	Stable high-area-capacity nanoarchitected germanium anodes on three-dimensional current collectors for Li ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1060-1067.	5.2	17
121	High-power and long-life supercapacitive performance of hierarchical, 3-D urchin-like W ₁₈ O ₄₉ nanostructure electrodes. <i>Nano Research</i> , 2016, 9, 633-643.	5.8	47
122	Windshield-waste-driven synthesis of hydroxy sodalite. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 1022-1026.	0.5	3
123	Synthesis of uniform-sized zeolite from windshield waste. <i>Materials Chemistry and Physics</i> , 2015, 166, 20-25.	2.0	13
124	Highly stable sodium storage in 3-D gradational Sb-NiSb-Ni heterostructures. <i>Nano Energy</i> , 2015, 15, 479-489.	8.2	37
125	Synthesis of carbon-incorporated titanium oxide nanocrystals by pulsed solution plasma: electrical, optical investigation and nanocrystals analysis. <i>RSC Advances</i> , 2015, 5, 9497-9502.	1.7	4
126	Comparison of the toxicity of aluminum oxide nanorods with different aspect ratio. <i>Archives of Toxicology</i> , 2015, 89, 1771-1782.	1.9	24

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127	Biomaterialized Multifunctional Magnetite/Carbon Microspheres for Applications in Li-ion Batteries and Water Treatment. <i>Chemistry - A European Journal</i> , 2015, 21, 4655-4663.	1.7	12
128	High-area-capacity lithium storage of the Kirkendall effect-driven hollow hierarchical NiS _x nanoarchitecture. <i>Nanoscale</i> , 2015, 7, 2790-2796.	2.8	38
129	Structural and electrochemical characteristics of morphology-controlled Li[Ni _{0.5} Mn _{1.5}]O ₄ cathodes. <i>Electrochimica Acta</i> , 2015, 156, 29-37.	2.6	34
130	Toxic response of graphene nanoplatelets in vivo and in vitro. <i>Archives of Toxicology</i> , 2015, 89, 1557-1568.	1.9	86
131	Examination of graphene nanoplatelets as cathode materials for lithium-oxygen batteries by differential electrochemical mass spectrometry. <i>Electrochemistry Communications</i> , 2015, 57, 39-42.	2.3	16
132	Superior long-life and high-rate Ge nanoarrays anchored on Cu/C nanowire frameworks for Li-ion battery electrodes. <i>Nano Energy</i> , 2015, 13, 218-225.	8.2	33
133	Reversible Li-storage in Titanium(III) Oxide Nanosheets. <i>Electrochimica Acta</i> , 2015, 170, 25-32.	2.6	14
134	Three-Dimensional Numerical Model Considering Phase Transformation in Friction Stir Welding of Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 6040-6051.	1.1	9
135	Facile synthesis and electroactivity of 3-D hierarchically superstructured cobalt orthophosphate for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 652, 100-105.	2.8	13
136	Comparison of catalytic performance of different types of graphene in Li-O ₂ batteries. <i>Journal of Alloys and Compounds</i> , 2015, 647, 231-237.	2.8	22
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