Dong-Wan Kim

List of Publications by Year
in descending order

302	12,677	28274	36028
papers	citations	55 h-index	97 g-index

311	311	311	14866
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Virus-Enabled Synthesis and Assembly of Nanowires for Lithium Ion Battery Electrodes. Science, 2006, 312, 885-888.	12.6	1,756
2	Gas sensing properties of defect-controlled ZnO-nanowire gas sensor. Applied Physics Letters, 2008, 93, .	3.3	643
3	Investigation of the relations between structure and microwave dielectric properties of divalent metal tungstate compounds. Journal of the European Ceramic Society, 2006, 26, 2051-2054.	5.7	314
4	Highly Conductive Coaxial SnO₂â^'In₂O₃ Heterostructured Nanowires for Li Ion Battery Electrodes. Nano Letters, 2007, 7, 3041-3045.	9.1	312
5	On-chip fabrication of ZnO-nanowire gas sensor with high gas sensitivity. Sensors and Actuators B: Chemical, 2009, 138, 168-173.	7.8	303
6	Highly Reversible Lithium Storage in Bacillus subtilis-Directed Porous Co₃O₄ Nanostructures. ACS Nano, 2011, 5, 443-449.	14.6	185
7	Synthesis of Cu₂PO₄OH Hierarchical Superstructures with Photocatalytic Activity in Visible Light. Advanced Functional Materials, 2008, 18, 2154-2162.	14.9	141
8	Electrocatalytic Selective Oxygen Evolution of Carbon-Coated Na₂Co_{1â€“x}Fe_xP₂O₇ Nanoparticles for Alkaline Seawater Electrolysis. ACS Catalysis, 2020, 10, 702-709.	11.2	141
9	Self-supported SnO₂nanowire electrodes for high-power lithium-ion batteries. Nanotechnology, 2009, 20, 455701.	2.6	129
10	Dielectric properties of Ln(Mg_{1/2}Ti_{1/2})O₃ as substrates for high-T_c superconductor thin films. Journal of Materials Research, 1999, 14, 2484-2487.	2.6	120
11	Repeated-oral dose toxicity of polyethylene microplastics and the possible implications on reproduction and development of the next generation. Toxicology Letters, 2020, 324, 75-85.	0.8	120
12	Microwave Dielectric Properties of Rare-Earth Ortho-Niobates with Ferroelasticity. Journal of the American Ceramic Society, 2006, 89, 3861-3864.	3.8	118
13	Phase Relations and Microwave Dielectric Properties of ZnNb₂O₆â€“TiO₂. Journal of Materials Research, 2000, 15, 1331-1335.	2.6	117
14	Scalable One-pot Bacteria-templating Synthesis Route toward Hierarchical, Porous-Co3O4 Superstructures for Supercapacitor Electrodes. Scientific Reports, 2013, 3, 2325.	3.3	109
15	â€œBrainâ€Coralâ€Likeâ€•Mesoporous Hollow CoS₂@Nâ€Doped Graphitic Carbon Nanoshells as Efficient Sulfur Reservoirs for Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1903712.	14.9	108
16	3D Architectures of Quaternary Coâ€Niâ€Sâ€P/Graphene Hybrids as Highly Active and Stable Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1802319.	19.5	107
17	Influence of Copper(II) Oxide Additions to Zinc Niobate Microwave Ceramics on Sintering Temperature and Dielectric Properties. Journal of the American Ceramic Society, 2001, 84, 1286-1290.	3.8	105
18	Microwave Dielectric Properties of Lowâ€Fired ZnNb₂O₆ Ceramics with BiVO₄ Addition. Journal of the American Ceramic Society, 2004, 87, 871-874.	3.8	98

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19	Low-temperature firing and microwave dielectric properties of BaTi4O9 with Zn-B-O glass system. Materials Research Bulletin, 2001, 36, 585-595.	5.2	97
20	Glass-free LTCC microwave dielectric ceramics. Materials Research Bulletin, 2005, 40, 2120-2129.	5.2	97
21	RbBaPO₄:Eu²⁺: a new alternative blue-emitting phosphor for UV-based white light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 500-505.	5.5	96
22	Superior rate capabilities of SnS nanosheet electrodes for Li ion batteries. Electrochemistry Communications, 2010, 12, 307-310.	4.7	92
23	Highly Efficient Perovskiteâ€Based Electrocatalysts for Water Oxidation in Acidic Environments: A Mini Review. Advanced Energy Materials, 2021, 11, 2002428.	19.5	92
24	A binder-free Ge-nanoparticle anode assembled on multiwalled carbon nanotube networks for Li-ion batteries. Chemical Communications, 2012, 48, 7061.	4.1	90
25	Toxic response of graphene nanoplatelets in vivo and in vitro. Archives of Toxicology, 2015, 89, 1557-1568.	4.2	86
26	Mixture behavior and microwave dielectric properties of (1â^'x)CaWO4â€“xTiO2. Journal of the European Ceramic Society, 2007, 27, 3087-3091.	5.7	84
27	Novel one-pot route to monodisperse thermosensitive hollow microcapsules in a microfluidic system. Lab on A Chip, 2008, 8, 1544.	6.0	80
28	Microwave Dielectric Properties of A2P2O7(A = Ca, Sr, Ba; Mg, Zn, Mn). Japanese Journal of Applied Physics, 2004, 43, 3521-3525.	1.5	79
29	Low-temperature sintering and microwave dielectric properties of Ba5Nb4O15â€“BaNb2O6 mixtures for LTCC applications. Journal of the European Ceramic Society, 2003, 23, 2597-2601.	5.7	78
30	Long-term, high-rate lithium storage capabilities of TiO2 nanostructured electrodes using 3D self-supported indium tin oxide conducting nanowire arrays. Energy and Environmental Science, 2011, 4, 1796.	30.8	76
31	Enhanced Li Storage Capacity in 3 nm Diameter SnO₂ Nanocrystals Firmly Anchored on Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 22062-22067.	3.1	76
32	Microwave dielectric properties of Ca2P2O7. Journal of the European Ceramic Society, 2003, 23, 2589-2592.	5.7	75
33	Formation of Lithiumâ€Driven Active/Inactive Nanocomposite Electrodes Based on Ca₃Co₄O₉ Nanoplates. Angewandte Chemie - International Edition, 2007, 46, 6654-6657.	13.8	75
34	Observation of ferroelectromagnetic nature in rare-earth-substituted bismuth iron titanate. Applied Physics Letters, 2003, 83, 2217-2219.	3.3	74
35	Wolframite-type ZnWO₄ Nanorods as New Anodes for Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 16228-16233.	3.1	74
36	Mixture Behavior and Microwave Dielectric Properties in the Low-fired TiO2â€“CuO System. Japanese Journal of Applied Physics, 2000, 39, 2696-2700.	1.5	73

#	Article	IF	Citations
37	Phase Constitutions and Microwave Dielectric Properties of Zn3Nb2O8â€“TiO2. Japanese Journal of Applied Physics, 2001, 40, 5994-5998.	1.5	73
38	Study of magnetic and magnetoelectric measurements in bismuth iron titanate ceramicâ€”Bi8Fe4Ti3O24. Materials Research Bulletin, 2004, 39, 55-61.	5.2	72
39	Preparation of Brookiteâ€Type TiO₂/Carbon Nanocomposite Electrodes for Application to Li Ion Batteries. European Journal of Inorganic Chemistry, 2008, 2008, 878-882.	2.0	72
40	Highly Reversible Li Storage in Hybrid NiO/Ni/Graphene Nanocomposites Prepared by an Electrical Wire Explosion Process. ACS Applied Materials & Interfaces, 2014, 6, 137-142.	8.0	69
41	Facile hydrothermal synthesis of porous TiO₂nanowire electrodes with high-rate capability for Li ion batteries. Nanotechnology, 2010, 21, 255706.	2.6	68
42	Sn-induced low-temperature growth of Ge nanowire electrodes with a large lithium storage capacity. Nanoscale, 2011, 3, 3371.	5.6	67
43	Fast adsorption kinetics of highly dispersed ultrafine nickel/carbon nanoparticles for organic dye removal. Applied Surface Science, 2018, 439, 364-370.	6.1	67
44	Voltage tunable dielectric properties of rf sputtered Bi2O3-ZnO-Nb2O5 pyrochlore thin films. Thin Solid Films, 2002, 419, 183-188.	1.8	65
45	An approach to flexible Na-ion batteries with exceptional rate capability and long lifespan using Na₂FeP₂O₇ nanoparticles on porous carbon cloth. Journal of Materials Chemistry A, 2017, 5, 5502-5510.	10.3	64
46	Low-temperature sintering and microwave dielectric properties of BaOÂ·(Nd1â^'xBix)2O3Â·4TiO2 by the glass additions. Ceramics International, 2004, 30, 1181-1185.	4.8	61
47	Synthesis of core/shell spinel ferrite/carbon nanoparticles with enhanced cycling stability for lithium ion battery anodes. Nanotechnology, 2012, 23, 125402.	2.6	61
48	Low-firing of CuO-doped anatase. Materials Research Bulletin, 1999, 34, 771-781.	5.2	60
49	Enhancement of cyclability of urchin-like rutile TiO2 submicron spheres by nanopainting with carbon. Journal of Materials Chemistry, 2012, 22, 15981.	6.7	60
50	Heteroepitaxial growth of ZnO nanosheet bands on ZnCo2O4 submicron rods toward high-performance Li ion battery electrodes. Nano Research, 2013, 6, 348-355.	10.4	60
51	Peroxymonosulfate activation by carbon-encapsulated metal nanoparticles: Switching the primary reaction route and increasing chemical stability. Applied Catalysis B: Environmental, 2020, 279, 119360.	20.2	60
52	Origin of Capacity Fading in Nano-Sized Co3O4Electrodes: Electrochemical Impedance Spectroscopy Study. Nanoscale Research Letters, 2008, 3, .	5.7	58
53	Enhanced cycling performance of an Fe0/Fe3O4nanocomposite electrode for lithium-ion batteries. Nanotechnology, 2009, 20, 295205.	2.6	58
54	Luminescence properties of Ca5(PO4)2SiO4:Eu2+ green phosphor for near UV-based white LED. Materials Letters, 2012, 70, 37-39.	2.6	58

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55	Microwave Dielectric Properties of Lowâ€Fired Ba₅Nb₄O₁₅. Journal of the American Ceramic Society, 2002, 85, 2759-2762.	3.8	57
56	Synthesis of multiphase SnSb nanoparticles-on-SnO2/Sn/C nanofibers for use in Li and Na ion battery electrodes. Electrochemistry Communications, 2014, 46, 124-127.	4.7	56
57	Porous Lithiophilic Liâ€“Si Alloyâ€Type Interfacial Framework via Selfâ€Discharge Mechanism for Stable Lithium Metal Anode with Superior Rate. Advanced Energy Materials, 2021, 11, 2101544.	19.5	56
58	Origin of Microwave Dielectric Loss in ZnNb₂O₆â€TiO₂. Journal of the American Ceramic Society, 2002, 85, 1169-1172.	3.8	55
59	Interaction of BiNbO₄â€Based Lowâ€Firing Ceramics with Silver Electrodes. Journal of the American Ceramic Society, 1998, 81, 3038-3040.	3.8	54
60	Effects of carbon content on the photocatalytic activity of C/BiVO4 composites under visible light irradiation. Materials Chemistry and Physics, 2010, 119, 106-111.	4.0	54
61	Carbon-encapsulated NiFe nanoparticles as a bifunctional electrocatalyst for high-efficiency overall water splitting. Journal of Catalysis, 2018, 366, 266-274.	6.2	54
62	Ultrafine Î±â€Phase Molybdenum Carbide Decorated with Platinum Nanoparticles for Efficient Hydrogen Production in Acidic and Alkaline Media. Advanced Science, 2019, 6, 1802135.	11.2	54
63	Cobalt phosphide nanoarrays with crystalline-amorphous hybrid phase for hydrogen production in universal-pH. Nano Research, 2020, 13, 2469-2477.	10.4	54
64	MnMoO₄ Electrocatalysts for Superior Longâ€Life and Highâ€Rate Lithiumâ€Oxygen Batteries. Advanced Energy Materials, 2017, 7, 1601741.	19.5	53
65	CeO2/Co(OH)2 hybrid electrocatalysts for efficient hydrogen and oxygen evolution reaction. Journal of Alloys and Compounds, 2019, 800, 450-455.	5.5	53
66	Phase transformation and microwave dielectric properties of BiPO4 ceramics. Journal of Electroceramics, 2006, 16, 379-383.	2.0	51
67	A graphite foil electrode covered with electrochemically exfoliated graphene nanosheets. Electrochemistry Communications, 2010, 12, 1419-1422.	4.7	51
68	Synthesis of pseudobrookite-type Fe2TiO5 nanoparticles and their Li-ion electroactivity. Ceramics International, 2012, 38, 6009-6013.	4.8	51
69	Stable field emission performance of SiC-nanowire-based cathodes. Nanotechnology, 2008, 19, 225706.	2.6	50
70	MagnÃ©li-Phase Ti₄O₇ Nanosphere Electrocatalyst Support for Carbon-Free Oxygen Electrodes in Lithiumâ€“Oxygen Batteries. ACS Catalysis, 2018, 8, 2601-2610.	11.2	50
71	Onion-like crystalline WS2 nanoparticles anchored on graphene sheets as high-performance anode materials for lithium-ion batteries. Chemical Engineering Journal, 2019, 375, 122033.	12.7	49
72	High-power and long-life supercapacitive performance of hierarchical, 3-D urchin-like W18O49 nanostructure electrodes. Nano Research, 2016, 9, 633-643.	10.4	47

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73	Microwave dielectric properties of (1 â^' x)Cu3Nb2O8â^'xZn3Nb2O8 ceramics. Journal of Materials Research, 2001, 16, 1465-1470.	2.6	46
74	Low-temperature sintering of temperature-stable LaNbO4 microwave dielectric ceramics. Materials Research Bulletin, 2010, 45, 21-24.	5.2	46
75	Low-temperature synthesis of CuO-interlaced nanodiscs for lithium ion battery electrodes. Nanoscale Research Letters, 2011, 6, 397.	5.7	46
76	Electrochemical performance of Ni x Co1-xMoO4 (0 â‰ x â‰ 1) nanowire anodes for lithium-ion batteries. Nanoscale Research Letters, 2012, 7, 35.	5.7	46
77	Visible-Light-Induced Photocatalytic Activity in FeNbO₄ Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 18393-18398.	3.1	45
78	Sb:SnO₂@TiO₂ Heteroepitaxial Branched Nanoarchitectures for Li Ion Battery Electrodes. Journal of Physical Chemistry C, 2012, 116, 21717-21726.	3.1	45
79	Three-dimensional hierarchical self-supported multi-walled carbon nanotubes/tin(iv) disulfide nanosheets heterostructure electrodes for high power Li ion batteries. Journal of Materials Chemistry, 2012, 22, 9330.	6.7	44
80	Direct assembly of tinâ€“MWCNT 3D-networked anode for rechargeable lithium ion batteries. RSC Advances, 2012, 2, 3315.	3.6	44
81	1D/2D carbon nanotube/graphene nanosheet composite anodes fabricated using electrophoretic assembly. Ceramics International, 2012, 38, 3017-3021.	4.8	43
82	Biodistribution and toxicity of spherical aluminum oxide nanoparticles. Journal of Applied Toxicology, 2016, 36, 424-433.	2.8	42
83	Amorphous hydrated vanadium oxide with enlarged interlayer spacing for aqueous zinc-ion batteries. Chemical Engineering Journal, 2021, 420, 130528.	12.7	42
84	Room-temperature synthesis of CuO/graphene nanocomposite electrodes for high lithium storage capacity. Ceramics International, 2013, 39, 1749-1755.	4.8	41
85	Microwave dielectric properties of (Ca1â^'xZnx)2P2O7. Materials Letters, 2005, 59, 257-260.	2.6	40
86	Low-temperature sintering and microwave dielectric properties of Ba5Nb4O15 with ZnB2O4 glass. Journal of the European Ceramic Society, 2006, 26, 2105-2109.	5.7	40
87	Enhanced photoluminescence property of Dy3+ co-doped BaAl2O4:Eu2+ green phosphors. Ceramics International, 2012, 38, 443-447.	4.8	40
88	Tailoring uniform Î³-MnO2 nanosheets on highly conductive three-dimensional current collectors for high-performance supercapacitor electrodes. Nano Research, 2015, 8, 990-1004.	10.4	39
89	High-areal-capacity lithium storage of the Kirkendall effect-driven hollow hierarchical NiSxnanoarchitecture. Nanoscale, 2015, 7, 2790-2796.	5.6	38
90	Waste Windshield-Derived Silicon/Carbon Nanocomposites as High-Performance Lithium-Ion Battery Anodes. Scientific Reports, 2018, 8, 960.	3.3	38

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91	Influence of Anataseâ€“Rutile Phase Transformation on Dielectric Properties of Solâ€“Gel Derived TiO2Thin Films. Japanese Journal of Applied Physics, 2005, 44, 6148-6151.	1.5	37
92	Tailoring high-surface-area nanocrystalline TiO2 polymorphs for high-power Li ion battery electrodes. Electrochimica Acta, 2010, 55, 7315-7321.	5.2	37
93	Biomineralized Sn-based multiphasic nanostructures for Li-ion battery electrodes. Nanoscale, 2012, 4, 4694.	5.6	37
94	Hierarchical assembly of TiO2â€“SrTiO3 heterostructures on conductive SnO2 backbone nanobelts for enhanced photoelectrochemical and photocatalytic performance. Journal of Hazardous Materials, 2014, 275, 10-18.	12.4	37
95	Highly stable sodium storage in 3-D gradational Sbâ€“NiSbâ€“Ni heterostructures. Nano Energy, 2015, 15, 479-489.	16.0	37
96	Enhanced Lithium Storage in Hierarchically Porous Carbon Derived from Waste Tea Leaves. Scientific Reports, 2016, 6, 39099.	3.3	37
97	Synergistic Effect of CuGeO₃/Graphene Composites for Efficient Oxygenâ€“Electrode Electrocatalysts in Liâ€“O₂ Batteries. Advanced Energy Materials, 2018, 8, 1801930.	19.5	37
98	Synthesis of Heterogeneous Li4Ti5O12 Nanostructured Anodes with Long-Term Cycle Stability. Nanoscale Research Letters, 2010, 5, 1585-1589.	5.7	36
99	Phase analysis and microwave dielectric properties of LTCC TiO2 with glass system. Journal of the European Ceramic Society, 2003, 23, 2549-2552.	5.7	35
100	Size-controlled synthesis of monodispersed mesoporous Î±-Alumina spheres by a template-free forced hydrolysis method. Dalton Transactions, 2011, 40, 6901.	3.3	35
101	Mo-MoO3-graphene nanocomposites as anode materials for lithium-ion batteries: scalable, facile preparation and characterization. Electrochimica Acta, 2017, 251, 81-90.	5.2	35
102	In Situ Conversion of Metalâ€“Organic Frameworks into VO₂â€“V₃S₄ Heterocatalyst Embedded Layered Porous Carbon as an â€œAllâ€inâ€Oneâ€•Host for Lithiumâ€“Sulfur Batteries. Small, 2020, 16, e2004806.	10.0	35
103	Metal-organic-framework-derived 3D crumpled carbon nanosheets with self-assembled CoxSy nanocatalysts as an interlayer for lithium-sulfur batteries. Chemical Engineering Journal, 2020, 400, 125959.	12.7	35
104	Sn self-doped Î±-Fe2O3 nanobranch arrays supported on a transparent, conductive SnO2 trunk to improve photoelectrochemical water oxidation. International Journal of Hydrogen Energy, 2014, 39, 16459-16467.	7.1	34
105	Structural and electrochemical characteristics of morphology-controlled Li[Ni0.5Mn1.5]O4 cathodes. Electrochimica Acta, 2015, 156, 29-37.	5.2	34
106	Tailored silicon hollow spheres with Micrococcus for Li ion battery electrodes. Chemical Engineering Journal, 2017, 327, 297-306.	12.7	34
107	Structural Transition and Microwave Dielectric Properties of ZnNb2O6â€“TiO2Sintered at Low Temperatures. Japanese Journal of Applied Physics, 2002, 41, 1465-1469.	1.5	33
108	Comparison of toxicity between the different-type TiO2 nanowires in vivo and in vitro. Archives of Toxicology, 2013, 87, 1219-1230.	4.2	33

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109	Superior long-life and high-rate Ge nanoarrays anchored on Cu/C nanowire frameworks for Li-ion battery electrodes. Nano Energy, 2015, 13, 218-225.	16.0	33
110	Enhanced Rate Capabilities of Nanobrookite with Electronically Conducting MWCNT Networks. Crystal Growth and Design, 2008, 8, 4506-4510.	3.0	32
111	3D Architectures of Co_xP Using Silk Fibroin Scaffolds: An Active and Stable Electrocatalyst for Hydrogen Generation in Acidic and Alkaline Media. Small, 2018, 14, e1801284.	10.0	32
112	Phase transformation and sintering behavior of Ca2P2O7. Materials Letters, 2004, 58, 347-351.	2.6	31
113	Microwave dielectric properties and low-temperature sintering of Ba3Ti4Nb4O21 ceramics with B2O3 and CuO additions. Journal of the European Ceramic Society, 2007, 27, 3053-3057.	5.7	31
114	Superior anodic oxidation in tailored Sb-doped SnO2/RuO2 composite nanofibers for electrochemical water treatment. Journal of Catalysis, 2019, 374, 118-126.	6.2	31
115	Li electroactivity of iron (II) tungstate nanorods. Nanotechnology, 2010, 21, 465602.	2.6	30
116	Kinetic insight into perovskite <scp>La_{0.8}Sr_{0.2}VO₃</scp> nanofibers as an efficient electrocatalytic cathode for highâ€rate <scp>Liï£¿O₂</scp> batteries. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1295-1310.	17.3	30
117	SrNb2O6 nanotubes with enhanced photocatalytic activity. Journal of Materials Chemistry, 2010, 20, 3979.	6.7	28
118	Superior lithium storage in nitrogen-doped carbon nanofibers with open-channels. Chemical Engineering Journal, 2017, 315, 1-9.	12.7	28
119	Pulmonary persistence of graphene nanoplatelets may disturb physiological and immunological homeostasis. Journal of Applied Toxicology, 2017, 37, 296-309.	2.8	28
120	Waste glass microfiber filter-derived fabrication of fibrous yolk-shell structured silicon/carbon composite freestanding electrodes for lithium-ion battery anodes. Journal of Power Sources, 2020, 468, 228407.	7.8	28
121	Uniform Si nanoparticle-embedded nitrogen-doped carbon nanofiber electrodes for lithium ion batteries. Journal of Alloys and Compounds, 2017, 728, 490-496.	5.5	27
122	Mechanically Interlocked Polymer Electrolyte with Builtâ€In Fast Molecular Shuttles for Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2021, 11, 2102583.	19.5	27
123	Microwave Dielectric Properties of (1-x)Ba5Nb4O15â€“xBaNb2O6Mixtures. Japanese Journal of Applied Physics, 2002, 41, 3812-3816.	1.5	26
124	Low temperature sintering and microwave dielectric properties of Ba3Ti5Nb6O28 with ZnOâ€“B2O3 glass additions for LTCC applications. Journal of the European Ceramic Society, 2007, 27, 3075-3079.	5.7	26
125	Synthesis of manganese oxide nanostructures using bacterial soft templates. CrystEngComm, 2011, 13, 6747.	2.6	26
126	Enhanced Li- and Na-storage in Sb-Graphene nanocomposite anodes. Materials Research Bulletin, 2016, 76, 338-343.	5.2	26

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127	Carbon-encapsulated multi-phase nanocomposite of W₂C@WC_{1â^'x}as a highly active and stable electrocatalyst for hydrogen generation. Nanoscale, 2018, 10, 21123-21131.	5.6	26
128	Synthesis and characterization of uniform hollow TiO2 nanofibers using electrospun fibrous cellulosic templates for lithium-ion battery electrodes. Journal of Alloys and Compounds, 2019, 800, 483-489.	5.5	26
129	Electrospun-cellulose derived free-standing carbon nanofibers as lightweight, ultrathin, and stackable interlayers for lithium-sulfur batteries. Chemical Engineering Journal, 2021, 405, 126596.	12.7	26
130	The Reversible Phase Transition and Dielectric Properties of BaNb2O6Polymorphs. Japanese Journal of Applied Physics, 2002, 41, 6045-6048.	1.5	25
131	Mixture behavior and microwave dielectric properties of (1â^'x)Ca2P2O7â€“xTiO2. Journal of the European Ceramic Society, 2006, 26, 2007-2010.	5.7	25
132	Surface-area-tuned, quantum-dot-sensitized heterostructured nanoarchitectures for highly efficient photoelectrodes. Nano Research, 2014, 7, 144-153.	10.4	25
133	Superior sodium storage performance of reduced graphene oxide-supported Na_{3.12}Fe_{2.44}(P₂O₇)₂/C nanocomposites. Chemical Communications, 2017, 53, 9316-9319.	4.1	25
134	Silica-templated hierarchically porous carbon modified separators for lithiumâ€“sulfur batteries with superior cycling stabilities. Journal of Power Sources, 2020, 448, 227462.	7.8	25
135	Dynamic evolution of a hydroxylated layer in ruthenium phosphide electrocatalysts for an alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 5655-5662.	10.3	25
136	Elucidating the Synergistic Behavior of Orientationâ€Controlled SnS Nanoplates and Carbon Layers for Highâ€Performance Lithiumâ€and Sodiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	25
137	Direct Assembly of BaTiO3-Poly(methyl methacrylate) Nanocomposite Films. Macromolecular Rapid Communications, 2006, 27, 1821-1825.	3.9	24
138	Synthesis and characterization of LiMnBO3 cathode material for lithium ion batteries. Current Applied Physics, 2013, 13, 1440-1443.	2.4	24
139	Comparison of the toxicity of aluminum oxide nanorods with different aspect ratio. Archives of Toxicology, 2015, 89, 1771-1782.	4.2	24
140	Comparison of distribution and toxicity following repeated oral dosing of different vanadium oxide nanoparticles in mice. Environmental Research, 2016, 150, 154-165.	7.5	24
141	Thermally reduced <scp>rGO</scp>â€wrapped CoP/Co₂P hybrid microflower as an electrocatalyst for hydrogen evolution reaction. Journal of the American Ceramic Society, 2018, 101, 3749-3754.	3.8	24
142	Heteroepitaxy-Induced Rutile VO₂ with Abundantly Exposed (002) Facets for High Lithium Electroactivity. ACS Energy Letters, 2016, 1, 216-224.	17.4	23
143	Comparative study on ternary spinel cathode Znâ€“Mnâ€“O microspheres for aqueous rechargeable zinc-ion batteries. Journal of Alloys and Compounds, 2019, 800, 478-482.	5.5	23
144	Cellulose-derived tin-oxide-nanoparticle-embedded carbon fibers as binder-free flexible Li-ion battery anodes. Cellulose, 2019, 26, 2557-2571.	4.9	23

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145	Superior long-term cycling stability of SnO₂nanoparticle/multiwalled carbon nanotube heterostructured electrodes for Li-ion rechargeable batteries. Nanotechnology, 2012, 23, 465402.	2.6	22
146	Finite Element Investigation for Edge Wave Prediction in Hot Rolled Steel during Run Out Table Cooling. ISIJ International, 2014, 54, 1646-1652.	1.4	22
147	Comparison of catalytic performance of different types of graphene in Liâ€“O2 batteries. Journal of Alloys and Compounds, 2015, 647, 231-237.	5.5	22
148	Li2MnSiO4 nanorods-embedded carbon nanofibers for lithium-ion battery electrodes. Electrochimica Acta, 2015, 180, 756-762.	5.2	22
149	Enhanced Lithium Storage in Reduced Graphene Oxide-supported M-phase Vanadium(IV) Dioxide Nanoparticles. Scientific Reports, 2016, 6, 30202.	3.3	22
150	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.	5.5	22
151	Redox effect of Fe2+/Fe3+ in iron phosphates for enhanced electrocatalytic activity in Li-O2 batteries. Chemical Engineering Journal, 2020, 388, 124294.	12.7	22
152	Blood clot-inspired viscoelastic fibrin gel: New aqueous binder for silicon anodes in lithium ion batteries. Energy Storage Materials, 2022, 45, 730-740.	18.0	22
153	Self-supported multi-walled carbon nanotube-embedded silicon nanoparticle films for anodes of Li-ion batteries. Materials Research Bulletin, 2013, 48, 1732-1736.	5.2	21
154	Comparison of toxicity of different nanorodâ€type TiO₂ polymorphs in vivo and in vitro. Journal of Applied Toxicology, 2014, 34, 357-366.	2.8	21
155	Carbon-decorated iron oxide hollow granules formed using a silk fibrous template: lithium-oxygen battery and wastewater treatment applications. NPG Asia Materials, 2017, 9, e450-e450.	7.9	21
156	Nickel disulfide nanosheet as promising cathode electrocatalyst for long-life lithiumâ€“oxygen batteries. Energy Storage Materials, 2020, 24, 594-601.	18.0	21
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