

Kai-Xue Wang

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89
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155
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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
152	The design of a LiFePO ₄ /carbon nanocomposite with a core-shell structure and its synthesis by an in situ polymerization restriction method. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7461-5	16.4	756
151	Isolated Diatomic Ni-Fe Metal-Nitrogen Sites for Synergistic Electroreduction of CO. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6972-6976	16.4	406
150	Surface and interface engineering of electrode materials for lithium-ion batteries. <i>Advanced Materials</i> , 2015 , 27, 527-45	24	344
149	Extended structures and physicochemical properties of uranyl-organic compounds. <i>Accounts of Chemical Research</i> , 2011 , 44, 531-40	24.3	342
148	Mesoporous Titania Nanotubes: Their Preparation and Application as Electrode Materials for Rechargeable Lithium Batteries. <i>Advanced Materials</i> , 2007 , 19, 3016-3020	24	232
147	Synthesis and electrochemical performance of nano-sized Li ₄ Ti ₅ O ₁₂ with double surface modification of Ti(III) and carbon. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6789		228
146	Carbon-Coated V ₂ O ₅ Nanocrystals as High Performance Cathode Material for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2011 , 23, 5290-5292	9.6	213
145	Surface binding of polypyrrole on porous silicon hollow nanospheres for Li-ion battery anodes with high structure stability. <i>Advanced Materials</i> , 2014 , 26, 6145-50	24	201
144	Hierarchical porous carbon derived from rice straw for lithium ion batteries with high-rate performance. <i>Electrochemistry Communications</i> , 2009 , 11, 130-133	5.1	192
143	Highly efficient dehydrogenation of formic acid over a palladium-nanoparticle-based Mott-Schottky photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11822-5	16.4	180
142	Mesoporous Carbon Nanofibers for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1093-1097	3.8	174
141	Montmorillonite-supported Ag/TiO ₂ nanoparticles: an efficient visible-light bacteria photodegradation material. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 544-50	9.5	171
140	MoO ₂ /Mo ₂ C Heteronanotubes Function as High-Performance Li-Ion Battery Electrode. <i>Advanced Functional Materials</i> , 2014 , 24, 3399-3404	15.6	160
139	Hierarchical Bi ₂ O ₂ CO ₃ microspheres with improved visible-light-driven photocatalytic activity. <i>CrystEngComm</i> , 2011 , 13, 4010	3.3	155
138	High stability and superior rate capability of three-dimensional hierarchical SnS ₂ microspheres as anode material in lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 3650-3654	8.9	154
137	Co ₃ O ₄ nanorods/graphene nanosheets nanocomposites for lithium ion batteries with improved reversible capacity and cycle stability. <i>Journal of Power Sources</i> , 2012 , 202, 230-235	8.9	147
136	Efficient sunlight-driven dehydrogenative coupling of methane to ethane over a Zn(+)-modified zeolite. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8299-303	16.4	139

135	Facile synthesis of NaV6O15 nanorods and its electrochemical behavior as cathode material in rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7885		123
134	Strategies to succeed in improving the lithium-ion storage properties of silicon nanomaterials. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 32-50	13	111
133	Multifunctional Au Nanocatalyst for Highly Efficient Hydrolysis of Ammonia Borane. <i>ACS Catalysis</i> , 2015 , 5, 388-392	13.1	111
132	Design and synthesis of a novel nanothorn VO2(B) hollow microsphere and their application in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2835		111
131	Synthesis and electrochemical properties of single-crystalline LiV3O8 nanorods as cathode materials for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2009 , 192, 668-673	8.9	101
130	3D-hierarchical SnS2 micro/nano-structures: controlled synthesis, formation mechanism and lithium ion storage performances. <i>CrystEngComm</i> , 2012 , 14, 1364-1375	3.3	92
129	Regeneration of Metal Sulfides in the Delithiation Process: The Key to Cyclic Stability. <i>Advanced Energy Materials</i> , 2016 , 6, 1601056	21.8	83
128	Cobalt-Doped MnO2 Hierarchical Yolk-Shell Spheres with Improved Supercapacitive Performance. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8465-8471	3.8	80
127	The Design of a LiFePO4/Carbon Nanocomposite With a Core-Shell Structure and Its Synthesis by an In Situ Polymerization Restriction Method. <i>Angewandte Chemie</i> , 2008 , 120, 7571-7575	3.6	80
126	Sol-gel preparation of efficient red phosphor Mg2TiO4:Mn4+ and XAFS investigation on the substitution of Mn4+ for Ti4+. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4327	7.1	77
125	Hierarchical carbon nanopapers coupled with ultrathin MoS2 nanosheets: Highly efficient large-area electrodes for hydrogen evolution. <i>Nano Energy</i> , 2015 , 15, 335-342	17.1	76
124	Nitrogen-doped graphene microtubes with opened inner voids: Highly efficient metal-free electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016 , 9, 2606-2615	10	76
123	Strategies toward High-Performance Cathode Materials for Lithium-Oxygen Batteries. <i>Small</i> , 2018 , 14, e1800078	11	73
122	A facile one-pot reduction method for the preparation of a SnO/SnO2/GNS composite for high performance lithium ion batteries. <i>Dalton Transactions</i> , 2014 , 43, 3137-43	4.3	73
121	3D-hierarchical NiO/graphene nanosheet composites as anodes for lithium ion batteries with improved reversible capacity and cycle stability. <i>RSC Advances</i> , 2012 , 2, 3410	3.7	72
120	Direct fabrication of well-aligned free-standing mesoporous carbon nanofiber arrays on silicon substrates. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13388-9	16.4	72
119	A Composite of Carbon-Wrapped Mo2C Nanoparticle and Carbon Nanotube Formed Directly on Ni Foam as a High-Performance Binder-Free Cathode for Li-O2 Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 8514-8520	15.6	68
118	Nitrogen-doped carbon nets with micro/mesoporous structures as electrodes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16698-16705	13	68

117	Lithiation mechanism of hierarchical porous MoO ₂ nanotubes fabricated through one-step carbothermal reduction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 80-86	13	67
116	CoFeO-Graphene Nanocomposites Synthesized through An Ultrasonic Method with Enhanced Performances as Anode Materials for Li-ion Batteries. <i>Nano-Micro Letters</i> , 2014 , 6, 307-315	19.5	65
115	A graphene-wrapped silver porous silicon composite with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13648	13	64
114	Neuron-Inspired Design of High-Performance Electrode Materials for Sodium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 11503-11510	16.7	64
113	Synergistic effect on the photoactivation of the methane C-H bond over Ga(3+)-modified ETS-10. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4702-6	16.4	60
112	Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. <i>Nature Communications</i> , 2019 , 10, 5810	17.4	59
111	Low-Overpotential Li-O ₂ Batteries Based on TFSI Intercalated Co ^{III} /Ti Layered Double Oxides. <i>Advanced Functional Materials</i> , 2016 , 26, 1365-1374	15.6	58
110	Li ₄ Ti ₅ O ₁₂ /TiO ₂ hollow spheres composed nanoflakes with preferentially exposed Li ₄ Ti ₅ O ₁₂ (011) facets for high-rate lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19791-6	9.5	58
109	Carbon nanocages with nanographene shell for high-rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9748		56
108	Carbonate decomposition: Low-overpotential Li-CO ₂ battery based on interlayer-confined monodisperse catalyst. <i>Energy Storage Materials</i> , 2018 , 15, 291-298	19.4	55
107	Uniform hierarchical MoO ₂ /carbon spheres with high cycling performance for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12038	13	54
106	Highly Efficient Dehydrogenation of Formic Acid over a Palladium-Nanoparticle-Based Mott-Schottky Photocatalyst. <i>Angewandte Chemie</i> , 2013 , 125, 12038-12041	3.6	54
105	Synthesis, structure characterization and photocatalytic properties of two new uranyl naphthalene-dicarboxylate coordination polymer compounds. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 1542-1547	3.1	54
104	Free-Standing Air Cathodes Based on 3D Hierarchically Porous Carbon Membranes: Kinetic Overpotential of Continuous Macropores in Li-O ₂ Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6825-6829	16.4	52
103	In situ catalytic growth of large-area multilayered graphene/MoS ₂ heterostructures. <i>Scientific Reports</i> , 2014 , 4, 4673	4.9	51
102	Preparation of Mesoporous Titania Thin Films with Remarkably High Thermal Stability. <i>Chemistry of Materials</i> , 2005 , 17, 1269-1271	9.6	51
101	Towards real Li-air batteries: A binder-free cathode with high electrochemical performance in CO ₂ and O ₂ . <i>Energy Storage Materials</i> , 2017 , 7, 209-215	19.4	49
100	Nitrogen-doped carbon nanotube sponge with embedded Fe/Fe ₃ C nanoparticles as binder-free cathodes for high capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17473-17480 ¹³		49

99	Supercritical Fluid Processing of Thermally Stable Mesoporous Titania Thin Films with Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , 2005 , 17, 4825-4831	9.6	47
98	Mesoporous titania rods as an anode material for high performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2012 , 214, 298-302	8.9	46
97	Hierarchical Li ₄ Ti ₅ O ₁₂ /TiO ₂ composite tubes with regular structural imperfection for lithium ion storage. <i>Scientific Reports</i> , 2013 , 3, 3490	4.9	45
96	Light-induced formation of porous TiO ₂ with superior electron-storing capacity. <i>Chemical Communications</i> , 2010 , 46, 2112-4	5.8	45
95	Template-directed metal oxides for electrochemical energy storage. <i>Energy Storage Materials</i> , 2016 , 3, 1-17	19.4	43
94	Isolated Diatomic Ni-Fe Metal-Nitrogen Sites for Synergistic Electroreduction of CO ₂ . <i>Angewandte Chemie</i> , 2019 , 131, 7046-7050	3.6	42
93	Preparation and tunable photoluminescence of carbogenic nanoparticles confined in a microporous magnesium-aluminophosphate. <i>Inorganic Chemistry</i> , 2010 , 49, 5859-67	5.1	42
92	Photochemically engineering the metal-semiconductor interface for room-temperature transfer hydrogenation of nitroarenes with formic acid. <i>Chemistry - A European Journal</i> , 2014 , 20, 16732-7	4.8	40
91	Efficient Sunlight-Driven Dehydrogenative Coupling of Methane to Ethane over a Zn ⁺ -Modified Zeolite. <i>Angewandte Chemie</i> , 2011 , 123, 8449-8453	3.6	40
90	Preparation of MCM-48 materials with enhanced hydrothermal stability. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4051		40
89	Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1331		38
88	Toward Lower Overpotential through Improved Electron Transport Property: Hierarchically Porous CoN Nanorods Prepared by Nitridation for Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2016 , 16, 5902-8	11.5	37
87	Isolated copper-tin atomic interfaces tuning electrocatalytic CO conversion. <i>Nature Communications</i> , 2021 , 12, 1449	17.4	36
86	Graphene-nanosheet-wrapped LiV ₃ O ₈ nanocomposites as high performance cathode materials for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 307, 426-434	8.9	35
85	Incorporation of heterostructured Sn/SnO nanoparticles in crumpled nitrogen-doped graphene nanosheets for application as anodes in lithium-ion batteries. <i>Chemical Communications</i> , 2014 , 50, 9961-4	5.8	34
84	Towards Rational Synthesis of Microporous Aluminophosphate AlPO ₄ -21 by Hydrothermal Combinatorial Approach. <i>Topics in Catalysis</i> , 2005 , 35, 3-8	2.3	34
83	Recent progress on germanium-based anodes for lithium ion batteries: Efficient lithiation strategies and mechanisms. <i>Energy Storage Materials</i> , 2020 , 30, 146-169	19.4	32
82	Hierarchical porous carbon spheres as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 10823	3.7	32

81	Rational Synthesis of Microporous Aluminophosphates with an Inorganic Open Framework Analogous to $\text{Al}_4\text{P}_5\text{O}_{20}\text{H}_2\text{C}_6\text{H}_{18}\text{N}_2$. <i>Chemistry of Materials</i> , 2000 , 12, 3783-3787	9.6	32
80	Non-Conjugated Dicarboxylate Anode Materials for Electrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8865-8870	16.4	32
79	Co ^{II} -based binder-free cathodes for lithium-oxygen batteries with improved cycling stability. <i>Dalton Transactions</i> , 2015 , 44, 8678-84	4.3	31
78	Synthesis of Ni-doped NiO/RGONS nanocomposites with enhanced rate capabilities as anode materials for Li ion batteries. <i>CrystEngComm</i> , 2013 , 15, 6663	3.3	31
77	General transfer hydrogenation by activating ammonia-borane over cobalt nanoparticles. <i>RSC Advances</i> , 2015 , 5, 102736-102740	3.7	30
76	An anionic framework aluminophosphate $[(\text{CH}_2)_6\text{N}_4\text{H}_3(\text{H}_2\text{O})][\text{Al}_{11}\text{P}_{12}\text{O}_{48}]$ and computer simulation of the template positions. <i>Microporous and Mesoporous Materials</i> , 2001 , 50, 151-158	5.3	30
75	Well-ordered mesoporous FeO/C composites as high performance anode materials for sodium-ion batteries. <i>Dalton Transactions</i> , 2017 , 46, 5025-5032	4.3	29
74	Supercritical fluid processing of mesoporous crystalline TiO ₂ thin films for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3888		29
73	Germanium nanoparticles supported by 3D ordered macroporous nickel frameworks as high-performance free-standing anodes for Li-ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 354, 616-622	14.7	28
72	Converting waste paper to multifunctional graphene-decorated carbon paper: from trash to treasure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13926-13932	13	28
71	A new layered aluminophosphate $[\text{C}_4\text{H}_{12}\text{N}_2][\text{Al}_2\text{P}_2\text{O}_8(\text{OH})_2]$ templated by piperazine. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1898-1902		28
70	Electrocatalyst design for aprotic Li-O ₂ batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 4717-4733	5.4	28
69	Amorphous silicon with high specific surface area prepared by a sodiothermic reduction method for supercapacitors. <i>Chemical Communications</i> , 2013 , 49, 5007-9	5.8	27
68	Controlled synthesis of magnetic Pd/Fe ₃ O ₄ spheres via an ethylenediamine-assisted route. <i>Dalton Transactions</i> , 2012 , 41, 3204-8	4.3	27
67	Hydroquinone Resin Induced Carbon Nanotubes on Ni Foam As Binder-Free Cathode for Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3868-73	9.5	26
66	Assembly of one-dimensional AlP_2O_8 chains into three-dimensional MAlP_2O_8 frameworks through transition metal cations (M = Ni ²⁺ , Co ²⁺ and Fe ²⁺). <i>Dalton Transactions</i> , 2003 , 99-103	4.3	26
65	Investigation on the chain-to-chain and chain-to-open-framework transformations of two one-dimensional aluminophosphate chains. <i>Inorganic Chemistry</i> , 2003 , 42, 4597-602	5.1	25
64	Synthesis and characterization of a new three-dimensional aluminophosphate $[\text{Al}_{11}\text{P}_{12}\text{O}_{48}][\text{C}_4\text{H}_{12}\text{N}_2][\text{C}_4\text{H}_{11}\text{N}_2]$ with an Al/P ratio of 11 : 12. <i>Dalton Transactions RSC</i> , 2001 , 1809-1812		25

63	Synthesis of SnO ₂ hollow nanostructures with controlled interior structures through a template-assisted hydrothermal route. <i>Dalton Transactions</i> , 2011 , 40, 8517-9	4.3	24
62	Free-standing hybrid porous membranes integrated with transition metal nitride and carbide nanoparticles for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2019 , 378, 122208	14.7	22
61	The crystallinity effect of mesocrystalline BaZrO ₃ hollow nanospheres on charge separation for photocatalysis. <i>Chemical Communications</i> , 2014 , 50, 3021-3	5.8	22
60	Toward Hydrogen-Free and Dendrite-Free Aqueous Zinc Batteries: Formation of Zincophilic Protective Layer on Zn Anodes.. <i>Advanced Science</i> , 2022 , e2104866	13.6	22
59	Cerium vanadate nanoparticles as a new anode material for lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 7403	3.7	21
58	Effect of Surface Cations on Photoelectric Conversion Property of Nanosized Zirconia. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9114-9120	3.8	21
57	Enhanced oxygen electroreduction over nitrogen-free carbon nanotube-supported CuFeO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4331-4336	13	20
56	Boosting the Zn-ion transfer kinetics to stabilize the Zn metal interface for high-performance rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16814-16823	13	20
55	Boosting Potassium Storage Capacity Based on Stress-Induced Size-Dependent Solid-Solution Behavior. <i>Advanced Energy Materials</i> , 2018 , 8, 1802175	21.8	20
54	Decomposition of CO ₂ to carbon and oxygen under mild conditions over a zinc-modified zeolite. <i>Chemical Communications</i> , 2012 , 48, 2325-7	5.8	19
53	Thermally stable nanocrystallised mesoporous zirconia thin films. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 161-164	5.3	19
52	Synthesis of porous Al ₂ O ₃ -PVDF composite separators and their application in lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2886-2890	2.9	18
51	Magnetite modified graphene nanosheets with improved rate performance and cyclic stability for Li ion battery anodes. <i>RSC Advances</i> , 2012 , 2, 4397	3.7	18
50	Free-Standing Air Cathodes Based on 3D Hierarchically Porous Carbon Membranes: Kinetic Overpotential of Continuous Macropores in Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 6941-6945	3.6	17
49	Single-site photocatalysts with a porous structure. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 2099-2112	2.4	16
48	Synthesis and characterization of a new microporous aluminophosphate [Al ₂ P ₂ O ₈][OCH ₂ CH ₂ NH ₃] with an open-framework analogous to AlPO ₄ -D. <i>Microporous and Mesoporous Materials</i> , 2000 , 39, 281-289	5.3	16
47	Bio-inspired noble metal-free reduction of nitroarenes using NiS _{2+x} /g-C ₃ N ₄ . <i>RSC Advances</i> , 2014 , 4, 60873-60877	3.7	16
46	Light-Driven Preparation, Microstructure, and Visible-Light Photocatalytic Property of Porous Carbon-Doped TiO ₂ . <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-9	2.1	15

45	Thiophene Derivative as a High Electrochemical Active Anode Material for Sodium-Ion Batteries: The Effect of Backbone Sulfur. <i>Chemistry of Materials</i> , 2018 , 30, 8426-8430	9.6	15
44	Synergistic effect of Brsted acid and platinum on purification of automobile exhaust gases. <i>Scientific Reports</i> , 2013 , 3, 2349	4.9	14
43	Synergistic Effect on the Photoactivation of the Methane C-H Bond over Ga ³⁺ -Modified ETS-10. <i>Angewandte Chemie</i> , 2012 , 124, 4780-4784	3.6	14
42	Surface engineering donor and acceptor sites with enhanced charge transport for low-overpotential lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2020 , 25, 52-61	19.4	14
41	Dandelion-clock-inspired preparation of core-shell TiO ₂ @MoS ₂ composites for high performance sodium ion storage. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152386	5.7	14
40	MoS ₂ nanoflakes integrated in a 3D carbon framework for high-performance sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1126-1132	5.7	13
39	3D ordered macroporous MoO ₂ attached on carbonized cloth for high performance free-standing binder-free lithium-sulfur electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24524-24531	13	13
38	Free-standing N,Co-codoped TiO ₂ nanoparticles for LiO ₂ -based LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23046-23054	13	12
37	Boosting the electrochemical performance of LiO ₂ batteries with DPPH redox mediator and graphene-luteolin-protected lithium anode. <i>Energy Storage Materials</i> , 2020 , 31, 373-381	19.4	12
36	In situ growth of ultrafine tin oxide nanocrystals embedded in graphitized carbon nanosheets for use in high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6960-6965	13	12
35	Enhanced Electrochemical Performance of Aprotic Li-CO Batteries with a Ruthenium-Complex-Based Mobile Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16404-16408	16.4	12
34	Non-Conjugated Dicarboxylate Anode Materials for Electrochemical Cells. <i>Angewandte Chemie</i> , 2018 , 130, 9003-9008	3.6	12
33	A Supercritical-Fluid Method for Growing Carbon Nanotubes. <i>Advanced Materials</i> , 2007 , 19, 3043-3046	24	11
32	A simulation study on the topotactic transformations from aluminophosphate AlPO ₄ (4)-21 to AlPO ₄ (4)-25. <i>Inorganic Chemistry</i> , 2001 , 40, 5812-7	5.1	11
31	Core-shell anatase anode materials for sodium-ion batteries: the impact of oxygen vacancies and nitrogen-doped carbon coating. <i>Nanoscale</i> , 2019 , 11, 17860-17868	7.7	10
30	Cu ₂ SnSe ₃ /CNTs Composite as a Promising Anode Material for Sodium-ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 91-96	2.2	10
29	Sodium phthalate as an anode material for sodium ion batteries: effect of the bridging carbonyl group. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8469-8475	13	10
28	Elucidation of the chemical environment for zinc species in an electron-rich zinc-incorporated zeolite. <i>Journal of Solid State Chemistry</i> , 2013 , 202, 111-115	3.3	9

27	Carbon nanocolumn arrays prepared by pulsed laser deposition for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 203, 140-144	8.9	8
26	Uric Acid as an Electrochemically Active Compound for Sodium-Ion Batteries: Stepwise Na-Storage Mechanisms of EConjugation and Stabilized Carbon Anion. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33934-33940	9.5	8
25	Superposed Redox Chemistry of Fused Carbon Rings in Cyclooctatetraene-Based Organic Molecules for High-Voltage and High-Capacity Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2496-2503	9.5	7
24	Trapping oxygen in hierarchically porous carbon nano-nets: graphitic nitrogen dopants boost the electrocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 56765-56771	3.7	7
23	Li ₃ V ₂ (PO ₄) ₃ particles embedded in porous N-doped carbon as high-rate and long-life cathode material for Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 78209-78214	3.7	6
22	Rubber-based carbon electrode materials derived from dumped tires for efficient sodium-ion storage. <i>Dalton Transactions</i> , 2018 , 47, 4885-4892	4.3	6
21	Distinct effect of hierarchical structure on performance of anatase as an anode material for lithium-ion batteries. <i>RSC Advances</i> , 2013 , 3, 26052	3.7	6
20	Supramolecular nano-assemblies with tailorable surfaces: recyclable hard templates for engineering hollow nanocatalysts. <i>Science China Materials</i> , 2014 , 57, 7-12	7.1	6
19	Inorganic-organic hybrid material containing Eage: {[H ₂ (en)]Co ₂ (ox)(V ₄ O ₁₂) _n . <i>Inorganic Chemistry Communication</i> , 2003 , 6, 370-373	3.1	6
18	Cooperative Effect of Multiple Active Sites and Hierarchical Chemical Bonds in Metal-organic Compounds for Improving Cathode Performance. <i>ACS Energy Letters</i> , 2020 , 5, 477-485	20.1	4
17	Highly Reversible Zinc Anode Enabled by a Cation-Exchange Coating with Zn-Ion Selective Channels.. <i>ACS Nano</i> , 2022 ,	16.7	4
16	Rational Design of Zirconium-doped Titania Photocatalysts with Synergistic Brsted Acidity and Photoactivity. <i>ChemSusChem</i> , 2016 , 9, 2759-2764	8.3	3
15	Catalysts for Li-O ₂ Batteries: From Heterogeneous to Homogeneous. <i>ChemNanoMat</i> ,	3.5	3
14	Top-down fabrication of hierarchical nanocubes on nanosheets composite for high-rate lithium storage. <i>Dalton Transactions</i> , 2018 , 47, 16155-16163	4.3	3
13	The application of supercritical fluids in the preparation and processing of mesoporous materials. <i>Studies in Surface Science and Catalysis</i> , 2007 , 1796-1803	1.8	2
12	Phosphazene-derived stable and robust artificial SEI for protecting lithium anodes of Li-O batteries. <i>Chemical Communications</i> , 2020 , 56, 12566-12569	5.8	2
11	Enhanced Electrochemical Performance of Aprotic Li-CO ₂ Batteries with a Ruthenium-Complex-Based Mobile Catalyst. <i>Angewandte Chemie</i> , 2021 , 133, 16540-16544	3.6	2
10	Dendrite-free lithium anode achieved under lean-electrolyte condition through the modification of separators with F-functionalized Ti ₃ C ₂ nanosheets. <i>Journal of Energy Chemistry</i> , 2022 , 66, 366-373	12	2

9	Towards High-performance Lithium-Sulfur Batteries: the Modification of Polypropylene Separator by 3D Porous Carbon Structure Embedded with Fe ₃ C/Fe Nanoparticles. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 147-154	2.2	2
8	Impact of photogenerated charge behaviors on luminescence of Eu ³⁺ -incorporated microporous titanosilicate ETS-10. <i>Science China Chemistry</i> , 2013 , 56, 428-434	7.9	1
7	Self-Oriented Single Crystalline Silicon Nanorod Arrays through a Chemical Vapor Reaction Route. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2471-2475	3.8	1
6	Thiophene derivatives as electrode materials for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11530-11536	13	1
5	Towards high performance lithium-oxygen batteries: Co ₃ O ₄ -NiO heterostructure induced preferential growth of ultrathin Li ₂ O ₂ film. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158073	5.7	0
4	Construction of Large Non-Localized π -Electron System for Enhanced Sodium-Ion Storage. <i>Small</i> , 2021 , e2105825	11	0
3	Design of Functional Carbon Composite Materials for Energy Conversion and Storage. <i>Chemical Research in Chinese Universities</i> , 1	2.2	0
2	Hedgehog-like polycrystalline Si as anode material for high performance Li-ion battery. <i>RSC Advances</i> , 2014 , 4, 57083-57086	3.7	
1	Progress on the Photoanode for Dye-Sensitized Solar Cells 2012 , 513-564		