

An-Min Cao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

7,982
citations

41
h-index

89
g-index

116
ext. papers

9,033
ext. citations

9.9
avg. IF

6.11
L-index

#	Paper	IF	Citations
108	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
107	Advancing to 4.6V Review and Prospect in Developing High-Energy-Density LiCoO Cathode for Lithium-Ion Batteries.. <i>Small Methods</i> , 2022 , e2200148	12.8	7
106	Accurately localizing multiple nanoparticles in a multishelled matrix through shell-to-core evolution for maximizing energy storage capability.. <i>Advanced Materials</i> , 2022 , e2200206	24	5
105	Template-free Synthesis of Co-based Oxides Nanotubes as Potential Anodes for Lithium-ion Batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 162611	5.7	5
104	The Functions and Applications of Fluorinated Interface Engineering in Li-Based Secondary Batteries. <i>Small Science</i> , 2021 , 1, 2100066		3
103	Kinetically-controlled formation of Fe2O3 nanoshells and its potential in Lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 433, 133188	14.7	1
102	Stabilization of High-Energy Cathode Materials of Metal-Ion Batteries: Control Strategies and Synthesis Protocols. <i>Energy & Fuels</i> , 2021 , 35, 7511-7527	4.1	3
101	Electrochemically Anodized V2O5 as an Efficient Sodium Cathode. <i>Energy & Fuels</i> , 2021 , 35, 8358-8364	4.1	3
100	Layered oxides with solid-solution reaction for high voltage potassium-ion batteries cathode. <i>Chemical Engineering Journal</i> , 2021 , 412, 128735	14.7	6
99	Manipulating Particle Chemistry for Hollow Carbon-based Nanospheres: Synthesis Strategies, Mechanistic Insights, and Electrochemical Applications. <i>Accounts of Chemical Research</i> , 2021 , 54, 221-231	24.3	10
98	High-Performance Cathode Materials for Potassium-Ion Batteries: Structural Design and Electrochemical Properties. <i>Advanced Materials</i> , 2021 , 33, e2100409	24	18
97	A General Synthesis Strategy for Hollow Metal Oxide Microspheres Enabled by Gel-Assisted Precipitation. <i>Angewandte Chemie</i> , 2021 , 133, 21547-21553	3.6	
96	A General Synthesis Strategy for Hollow Metal Oxide Microspheres Enabled by Gel-Assisted Precipitation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21377-21383	16.4	1
95	Hollow-Structured Electrode Materials: Self-Templated Synthesis and Their Potential in Secondary Batteries. <i>ChemNanoMat</i> , 2020 , 6, 1298-1314	3.5	3
94	Garnet-type Solid-state Electrolyte Li7La3Zr2O12: Crystal Structure, Element Doping and Interface Strategies for Solid-state Lithium Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 329-342	2.2	12
93	Hollow carbon nanospheres: syntheses and applications for post lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2283-2306	7.8	9
92	Enabling reversible phase transition on K5/9Mn7/9Ti2/9O2 for high-performance potassium-ion batteries cathodes. <i>Energy Storage Materials</i> , 2020 , 31, 20-26	19.4	15

91	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10337-10342	16.4	5
90	High-Performance Cathode of Sodium-Ion Batteries Enabled by a Potassium-Containing Framework of KMnFeTiO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15313-15319	9.5	11
89	Pitch-Derived Soft Carbon as Stable Anode Material for Potassium Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000505	24	105
88	Stabilization of the energetic Al powder through uniform and controlled surface coating for promoting its energy output. <i>Surface and Coatings Technology</i> , 2020 , 389, 125603	4.4	4
87	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. <i>Angewandte Chemie</i> , 2020 , 132, 10423-10428	3.6	0
86	Dielectric Polarization in Inverse Spinel-Structured Mg TiO Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2020 , 32, e2000496	24	59
85	Facile Synthesis of Hollow Carbon Nanospheres and Their Potential as Stable Anode Materials in Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13182-13188	9.5	21
84	In Situ Coating Graphdiyne for High-Energy-Density and Stable Organic Cathodes. <i>Advanced Materials</i> , 2020 , 32, e2000140	24	41
83	A Hollow Multi-Shelled Structure for Charge Transport and Active Sites in Lithium-Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4865-4868	16.4	53
82	S/N-doped carbon nanofibers affording Fe7S8 particles with superior sodium storage. <i>Journal of Power Sources</i> , 2020 , 451, 227790	8.9	23
81	A Hollow Multi-Shelled Structure for Charge Transport and Active Sites in Lithium-Ion Capacitors. <i>Angewandte Chemie</i> , 2020 , 132, 4895-4898	3.6	21
80	A Black Phosphorus-Graphite Composite Anode for Li-/Na-/K-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 2338-2342	3.6	13
79	A Black Phosphorus-Graphite Composite Anode for Li-/Na-/K-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2318-2322	16.4	54
78	Spherical Mesoporous Metal Oxides with Tunable Orientation Enabled by Growth Kinetics Control. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17897-17902	16.4	4
77	Solid-Solution-Based Metal Alloy Phase for Highly Reversible Lithium Metal Anode. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8818-8826	16.4	86
76	A facile synthetic strategy for the creation of hollow noble metal/transition metal oxide nanocomposites. <i>Chemical Communications</i> , 2019 , 55, 1076-1079	5.8	8
75	Recent developments in electrode materials for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4334-4352	13	155
74	Crystallization-induced self-hollowing of molybdenum sulfide nanoparticles and their potential in sodium ion batteries. <i>Chemical Communications</i> , 2019 , 55, 5894-5897	5.8	6

73	Precise Surface Engineering of Cathode Materials for Improved Stability of Lithium-Ion Batteries. <i>Small</i> , 2019 , 15, e1901019	11	31
72	Phase Control on Surface for the Stabilization of High Energy Cathode Materials of Lithium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4900-4907	16.4	54
71	In Vivo Measurement of Calcium Ion with Solid-State Ion-Selective Electrode by Using Shelled Hollow Carbon Nanospheres as a Transducing Layer. <i>Analytical Chemistry</i> , 2019 , 91, 4421-4428	7.8	19
70	Structural engineering of SnS ₂ /Graphene nanocomposite for high-performance K-ion battery anode. <i>Nano Energy</i> , 2019 , 60, 912-918	17.1	71
69	A S/N-doped high-capacity mesoporous carbon anode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11976-11984	13	50
68	Controlling the reaction kinetics in solution for uniform nanoshells of metal sulfides with sub-nanometer accuracy. <i>Science Bulletin</i> , 2019 , 64, 232-235	10.6	2
67	Lotus rhizome-like S/N with embedded WS ₂ for superior sodium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25932-25943	13	24
66	Construction of uniform transition-metal phosphate nanoshells and their potential for improving Li-ion battery performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8992-8999	13	21
65	Pseudocapacitance-boosted ultrafast Na storage in a pie-like FeS@C nanohybrid as an advanced anode material for sodium-ion full batteries. <i>Nanoscale</i> , 2018 , 10, 9218-9225	7.7	109
64	The facile construction of a yolk-shell structured metal@TiO ₂ nanocomposite with potential for p-nitrophenol reduction. <i>New Journal of Chemistry</i> , 2018 , 42, 3184-3187	3.6	4
63	Surface Zn doped LiMnO for an improved high temperature performance. <i>Chemical Communications</i> , 2018 , 54, 5326-5329	5.8	31
62	Facile synthesis of hollow Ti ₂ Nb ₁₀ O ₂₉ microspheres for high-rate anode of Li-ion batteries. <i>Science China Chemistry</i> , 2018 , 61, 670-676	7.9	18
61	Controllable synthesis of CNT@ZnO composites with enhanced electrochemical properties for lithium-ion battery. <i>Materials Research Bulletin</i> , 2018 , 101, 305-310	5.1	19
60	Construction of Uniform Cobalt-Based Nanoshells and Its Potential for Improving Li-Ion Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22896-22901	9.5	12
59	Structural Engineering of Multishelled Hollow Carbon Nanostructures for High-Performance Na-Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800855	21.8	78
58	Controlling the Reaction of Nanoparticles for Hollow Metal Oxide Nanostructures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9070-9073	16.4	53
57	A facile template free synthesis of porous carbon nanospheres with high capacitive performance. <i>Science China Chemistry</i> , 2018 , 61, 538-544	7.9	8
56	Heterogeneous nucleation and growth of highly crystalline imine-linked covalent organic frameworks. <i>Chemical Communications</i> , 2018 , 54, 5976-5979	5.8	39

55	Construction of uniform ZrO nanoshells by buffer solutions. <i>Dalton Transactions</i> , 2018 , 47, 12843-12846	4.3	5
54	Engineering Hollow Carbon Architecture for High-Performance K-Ion Battery Anode. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7127-7134	16.4	186
53	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. <i>CheM</i> , 2018 , 4, 1685-1695	16.2	45
52	Controlled formation of uniform nanoshells of manganese oxide and their potential in lithium ion batteries. <i>Chemical Communications</i> , 2017 , 53, 2846-2849	5.8	13
51	Copper-substituted Na _{0.67} Ni _{0.3} Cu _x Mn _{0.7} O ₂ cathode materials for sodium-ion batteries with suppressed P2D ₂ phase transition. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8752-8761	13	203
50	Interfacial synthesis of ordered and stable covalent organic frameworks on amino-functionalized carbon nanotubes with enhanced electrochemical performance. <i>Chemical Communications</i> , 2017 , 53, 6303-6306	5.8	95
49	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13492-13498	16.4	202
48	Designed synthesis of SnO-C hollow microspheres as an anode material for lithium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 11189-11192	5.8	53
47	Kinetically controlled formation of uniform FePO ₄ shells and their potential for use in high-performance sodium ion batteries. <i>NPG Asia Materials</i> , 2017 , 9, e414-e414	10.3	18
46	Microbial-Phosphorus-Enabled Synthesis of Phosphide Nanocomposites for Efficient Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11248-11253	16.4	53
45	Controlled synthesis of hierarchically-structured MnCo ₂ O ₄ and its potential as a high performance anode material. <i>Science China Chemistry</i> , 2017 , 60, 1180-1186	7.9	7
44	The formation of an ordered microporous aluminum-based material mediated by phthalic acid. <i>Chemical Communications</i> , 2016 , 52, 8038-41	5.8	2
43	Controlled formation of uniform CeO ₂ nanoshells in a buffer solution. <i>Chemical Communications</i> , 2016 , 52, 1420-3	5.8	14
42	General Synthetic Strategy for Hollow Hybrid Microspheres through a Progressive Inward Crystallization Process. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5916-22	16.4	34
41	Core-shell structured TiO ₂ @polydopamine for highly active visible-light photocatalysis. <i>Chemical Communications</i> , 2016 , 52, 7122-5	5.8	113
40	Controlled formation of core-shell structures with uniform AlPO ₄ nanoshells. <i>Chemical Communications</i> , 2015 , 51, 2943-2945	5.8	15
39	Assembly of plasmid DNA with pyrene-amines cationic amphiphiles into nanoparticles and their visible lysosome localization. <i>RSC Advances</i> , 2015 , 5, 12338-12345	3.7	14
38	In situ encapsulation of Pd inside the MCM-41 channel. <i>Chemical Communications</i> , 2015 , 51, 7482-5	5.8	30

37	Ultrasmall Pd/Au bimetallic nanocrystals embedded in hydrogen-bonded supramolecular structures: facile synthesis and catalytic activities in the reduction of 4-nitrophenol. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19433-19438	13	45
36	Controlled Formation of Metal@Al ₂ O ₃ Yolk-Shell Nanostructures with Improved Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27031-4	9.5	37
35	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , 2015 , 5, 55856-55869	3.7	53
34	Core-shell structured Ce ₂ S ₃ @ZnO and its potential as a pigment. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2176-2180	13	28
33	One-nanometer-precision control of Al ₂ O ₃ nanoshells through a solution-based synthesis route. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12776-80	16.4	77
32	One-Nanometer-Precision Control of Al ₂ O ₃ Nanoshells through a Solution-Based Synthesis Route. <i>Angewandte Chemie</i> , 2014 , 126, 12990-12994	3.6	14
31	Formation of nitrogen-doped mesoporous graphitic carbon with the help of melamine. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20574-8	9.5	36
30	Facet dependent SEI formation on the LiNi _{0.5} Mn _{1.5} O ₄ cathode identified by in situ single particle atomic force microscopy. <i>Chemical Communications</i> , 2014 , 50, 15756-9	5.8	34
29	Optimizing the carbon coating on LiFePO ₄ for improved battery performance. <i>RSC Advances</i> , 2014 , 4, 7795	3.7	50
28	Accurate surface control of core-shell structured LiMn _{0.5} Fe _{0.5} PO ₄ @C for improved battery performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17359-17365	13	54
27	A continuous etching process for highly-active Pd nanoclusters and their in situ stabilization. <i>RSC Advances</i> , 2014 , 4, 23637	3.7	3
26	Optimizing LiFePO ₄ @C core-shell structures via the 3-aminophenol-formaldehyde polymerization for improved battery performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22719-25	9.5	17
25	Spin-coated silicon nanoparticle/graphene electrode as a binder-free anode for high-performance lithium-ion batteries. <i>Nano Research</i> , 2012 , 5, 845-853	10	105
24	Engineering thermal and mechanical properties of flexible fiber-reinforced aerogel composites. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 63, 445-456	2.3	57
23	Designable fabrication of flower-like SnS ₂ aggregates with excellent performance in lithium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 3615	3.7	54
22	Shape-controlled synthesis of high tap density cathode oxides for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6724-8	3.6	40
21	Morphology control and shape evolution in 3D hierarchical superstructures. <i>Science China Chemistry</i> , 2012 , 55, 2249-2256	7.9	45
20	Efficient 3D conducting networks built by graphene sheets and carbon nanoparticles for high-performance silicon anode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2824-8	9.5	133

19	Highly stable, mesoporous mixed lanthanum/berium oxides with tailored structure and reducibility. <i>Journal of Materials Science</i> , 2011 , 46, 2928-2937	4.3	30
18	Exceptional high-temperature stability through distillation-like self-stabilization in bimetallic nanoparticles. <i>Nature Materials</i> , 2010 , 9, 75-81	27	148
17	Stabilizing metal nanoparticles for heterogeneous catalysis. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13499-510	3.6	313
16	Au-mixed lanthanum/cerium oxide catalysts for water gas shift. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 89-95	21.8	38
15	La(OH) ₃ Hollow Nanostructures with Trapezohedron Morphologies Using a New Kirkendall Diffusion Couple. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17988-17993	3.8	21
14	Photoluminescence and Electroluminescence from a Hybrid of Lumogen Red in Nanoporous-Silica. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1336-1340	1.3	9
13	Facile solution synthesis of hexagonal Alq ₃ nanorods and their field emission properties. <i>Chemical Communications</i> , 2007 , 3083-5	5.8	41
12	Hierarchical Nanostructured Copper Oxide and Its Application in Arsenic Removal. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18624-18628	3.8	110
11	3D Flowerlike Ceria Micro/Nanocomposite Structure and Its Application for Water Treatment and CO Removal. <i>Chemistry of Materials</i> , 2007 , 19, 1648-1655	9.6	410
10	Fabrication of nonaging superhydrophobic surfaces by packing flowerlike hematite particles. <i>Applied Physics Letters</i> , 2007 , 91, 034102	3.4	17
9	Self-Assembled 3D Flowerlike Iron Oxide Nanostructures and Their Application in Water Treatment. <i>Advanced Materials</i> , 2006 , 18, 2426-2431	24	1425
8	Hierarchically structured cobalt oxide (Co ₃ O ₄): the morphology control and its potential in sensors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15858-63	3.4	320
7	Electrochemical sensor for detecting ultratrace nitroaromatic compounds using mesoporous SiO ₂ -modified electrode. <i>Analytical Chemistry</i> , 2006 , 78, 1967-71	7.8	184
6	Facile synthesis of Pt multipods nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2031-63	3	3
5	Mass production and high photocatalytic activity of ZnS nanoporous nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1269-73	16.4	511
4	Self-assembled vanadium pentoxide (V ₂ O ₅) hollow microspheres from nanorods and their application in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4391-5	16.4	782
3	Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 1295-1299	3.6	154
2	Self-Assembled Vanadium Pentoxide (V ₂ O ₅) Hollow Microspheres from Nanorods and Their Application in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2005 , 117, 4465-4469	3.6	54

- 1 Interface Engineering of a Ceramic Electrolyte by Ta₂O₅ Nanofilms for Ultrastable Lithium Metal Batteries. *Advanced Functional Materials*, 2020, 14, 1901498

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