

An-Min Cao

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2050473/an-min-cao-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Self-Assembled 3D Flowerlike Iron Oxide Nanostructures and Their Application in Water Treatment. <i>Advanced Materials</i> , 2006 , 18, 2426-2431	24	1425
107	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
106	Mass production and high photocatalytic activity of ZnS nanoporous nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1269-73	16.4	511
105	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
104	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
103	Stabilizing metal nanoparticles for heterogeneous catalysis. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13499-510	3.6	313
102	Copper-substituted Na _{0.67} Ni _{0.3} Cu _x Mn _{0.7} O ₂ cathode materials for sodium-ion batteries with suppressed P2D2 phase transition. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8752-8761	13	203
101	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
100	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
99	Electrochemical sensor for detecting ultratrace nitroaromatic compounds using mesoporous SiO ₂ -modified electrode. <i>Analytical Chemistry</i> , 2006 , 78, 1967-71	7.8	184
98	Recent developments in electrode materials for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4334-4352	13	155
97	Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 1295-1299	3.6	154
96	Exceptional high-temperature stability through distillation-like self-stabilization in bimetallic nanoparticles. <i>Nature Materials</i> , 2010 , 9, 75-81	27	148
95	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
94	Core-shell structured TiO ₂ @polydopamine for highly active visible-light photocatalysis. <i>Chemical Communications</i> , 2016 , 52, 7122-5	5.8	113
93	Hierarchical Nanostructured Copper Oxide and Its Application in Arsenic Removal. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18624-18628	3.8	110
92	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

91	Pitch-Derived Soft Carbon as Stable Anode Material for Potassium Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000505	24	105
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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
75	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
74	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

73	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , 2015 , 5, 55856-55869	3.7	53
72	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
71	Optimizing the carbon coating on LiFePO ₄ for improved battery performance. <i>RSC Advances</i> , 2014 , 4, 7795	3.7	50
70	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
69	Morphology control and shape evolution in 3D hierarchical superstructures. <i>Science China Chemistry</i> , 2012 , 55, 2249-2256	7.9	45
68	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. <i>Chem</i> , 2018 , 4, 1685-1695	16.2	45
67	In Situ Coating Graphdiyne for High-Energy-Density and Stable Organic Cathodes. <i>Advanced Materials</i> , 2020 , 32, e2000140	24	41
66	Facile solution synthesis of hexagonal Alq ₃ nanorods and their field emission properties. <i>Chemical Communications</i> , 2007 , 3083-5	5.8	41
65	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
64	Heterogeneous nucleation and growth of highly crystalline imine-linked covalent organic frameworks. <i>Chemical Communications</i> , 2018 , 54, 5976-5979	5.8	39
63	Au-mixed lanthanum/cerium oxide catalysts for water gas shift. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 89-95	21.8	38
62	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
61	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
60	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
59	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
58	Precise Surface Engineering of Cathode Materials for Improved Stability of Lithium-Ion Batteries. <i>Small</i> , 2019 , 15, e1901019	11	31
57	Surface Zn doped LiMnO ₂ for an improved high temperature performance. <i>Chemical Communications</i> , 2018 , 54, 5326-5329	5.8	31
56	In situ encapsulation of Pd inside the MCM-41 channel. <i>Chemical Communications</i> , 2015 , 51, 7482-5	5.8	30

55	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
54	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
53	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
52	S/N-doped carbon nanofibers affording Fe ₇ S ₈ particles with superior sodium storage. <i>Journal of Power Sources</i> , 2020 , 451, 227790	8.9	23
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	High-Performance Cathode Materials for Potassium-Ion Batteries: Structural Design and Electrochemical Properties. <i>Advanced Materials</i> , 2021 , 33, e2100409	24	18
42	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
41	Fabrication of nonaging superhydrophobic surfaces by packing flowerlike hematite particles. <i>Applied Physics Letters</i> , 2007 , 91, 034102	3.4	17
40	Controlled formation of core-shell structures with uniform AlPO ₄ nanoshells. <i>Chemical Communications</i> , 2015 , 51, 2943-2945	5.8	15
39	Enabling reversible phase transition on K ₅ /9Mn ₇ /9Ti ₂ /9O ₂ for high-performance potassium-ion batteries cathodes. <i>Energy Storage Materials</i> , 2020 , 31, 20-26	19.4	15
38	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

37	Controlled formation of uniform CeO ₂ nanoshells in a buffer solution. <i>Chemical Communications</i> , 2016 , 52, 1420-3	5.8	14
36	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
35	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
34	A Black Phosphorus/Graphite Composite Anode for Li-/Na-/K-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 2338-2342	3.6	13
33	Garnet-type Solid-state Electrolyte Li ₇ La ₃ Zr ₂ O ₁₂ : 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
32	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
31	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
30	Manipulating Particle Chemistry for Hollow Carbon-based Nanospheres: Synthesis Strategies, Mechanistic Insights, and Electrochemical Applications. <i>Accounts of Chemical Research</i> , 2021 , 54, 221-234	4.3	10
29	Hollow carbon nanospheres: syntheses and applications for post lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2283-2306	7.8	9
28	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
27	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
26	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
25	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
24	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
23	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
22	Layered oxides with solid-solution reaction for high voltage potassium-ion batteries cathode. <i>Chemical Engineering Journal</i> , 2021 , 412, 128735	14.7	6
21	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
20	Construction of uniform ZrO nanoshells by buffer solutions. <i>Dalton Transactions</i> , 2018 , 47, 12843-12846	4.3	5

19	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
18	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
17	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
16	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
15	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
14	Hollow-Structured Electrode Materials: Self-Templated Synthesis and Their Potential in Secondary Batteries. <i>ChemNanoMat</i> , 2020 , 6, 1298-1314	3.5	3
13	A continuous etching process for highly-active Pd nanoclusters and their in situ stabilization. <i>RSC Advances</i> , 2014 , 4, 23637	3.7	3
12	Facile synthesis of Pt multipods nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2031-63	6.3	3
11	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
10	The Functions and Applications of Fluorinated Interface Engineering in Li-Based Secondary Batteries. <i>Small Science</i> , 2021 , 1, 2100066		3
9	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
8	Electrochemically Anodized V ₂ O ₅ as an Efficient Sodium Cathode. <i>Energy & Fuels</i> , 2021 , 35, 8358-8364	16.4	3
7	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
6	The formation of an ordered microporous aluminum-based material mediated by phthalic acid. <i>Chemical Communications</i> , 2016 , 52, 8038-41	5.8	2
5	Interface Engineering of a Ceramic Electrolyte by Ta ₂ O ₅ Nanofilms for Ultrastable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2201498	15.6	2
4	Kinetically-controlled formation of Fe ₂ O ₃ nanoshells and its potential in Lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 433, 133188	14.7	1
3	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
2	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. <i>Angewandte Chemie</i> , 2020 , 132, 10423-10428	3.6	0

- 1 A General Synthesis Strategy for Hollow Metal Oxide Microspheres Enabled by Gel-Assisted Precipitation. *Angewandte Chemie*, **2021**, 133, 21547-21553

3.6