

# Yaocai Bai

## List of Publications by Year in descending order

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53  
papers

4,612  
citations

270111

25  
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232693

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53  
docs citations

53  
times ranked

8424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanocups with multimodal plasmon resonance for quantum-dot random lasing. <i>Applied Materials Today</i> , 2022, 26, 101358.	2.3	7
2	Flux upcycling of spent NMC 111 to nickel-rich NMC cathodes in reciprocal ternary molten salts. <i>IScience</i> , 2022, 25, 103801.	1.9	20
3	Self-assembly of colloidal nanoparticles into encapsulated hollow superstructures. <i>Aggregate</i> , 2022, 3, .	5.2	4
4	A lightweight thermally insulating and moisture-stable composite made of hollow silica particles. <i>RSC Advances</i> , 2022, 12, 15373-15377.	1.7	5
5	Effects of charging rates on LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> (NMC622)/graphite Li-ion cells. <i>Journal of Energy Chemistry</i> , 2021, 56, 121-126.	7.1	18
6	Anisotropic Seeded Growth of Ag Nanoplates Confined in Shape-Deformable Spaces. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4117-4124.	7.2	26
7	Anisotropic Seeded Growth of Ag Nanoplates Confined in Shape-Deformable Spaces. <i>Angewandte Chemie</i> , 2021, 133, 4163-4170.	1.6	6
8	Recovery of Cathode Materials and Aluminum Foil Using a Green Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6048-6055.	3.2	59
9	Modified bornite materials with high electrochemical performance for sodium and lithium storage. <i>Energy Storage Materials</i> , 2021, 40, 150-158.	9.5	13
10	Plasmon-Enhanced Oxygen Evolution Catalyzed by Fe <sub>2</sub> N-Embedded TiO <sub>x</sub> N <sub>y</sub> Nanoshells. <i>ACS Applied Energy Materials</i> , 2020, 3, 146-151.	2.5	18
11	Sustainable recycling of cathode scraps via Cyrene-based separation. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00202.	1.7	28
12	Sustainable Direct Recycling of Lithium-Ion Batteries via Solvent Recovery of Electrode Materials. <i>ChemSusChem</i> , 2020, 13, 5664-5670.	3.6	80
13	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. <i>Materials Today</i> , 2020, 41, 304-315.	8.3	181
14	Eutectic Synthesis of the P2-Type Na <sub>x</sub> Fe <sub>1/2</sub> Mn <sub>1/2</sub> O <sub>2</sub> Cathode with Improved Cell Design for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23951-23958.	4.0	21
15	Lithium and transition metal dissolution due to aqueous processing in lithium-ion battery cathode active materials. <i>Journal of Power Sources</i> , 2020, 466, 228315.	4.0	61
16	Direct Recycling of Spent NCM Cathodes through Ionothermal Lithiation. <i>Advanced Energy Materials</i> , 2020, 10, 2001204.	10.2	129
17	Ligand-Assisted Solid-State Transformation of Nanoparticles. <i>Chemistry of Materials</i> , 2020, 32, 3271-3277.	3.2	13
18	Probing Thermal Stability of Li-Ion Battery Ni-Rich Layered Oxide Cathodes by means of Operando Gas Analysis and Neutron Diffraction. <i>ACS Applied Energy Materials</i> , 2020, 3, 7058-7065.	2.5	28

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19	LiNi <sub>1-x</sub> FeyAlzO <sub>2</sub> , a new cobalt-free layered cathode material for advanced Li-ion batteries. Journal of Power Sources, 2020, 471, 228389.	4.0	52
20	<i>In situ</i> exsolution of Ag from Ag <sub>2</sub> BiS <sub>2</sub> nanocrystal anode boosting high-performance potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 15058-15065.	5.2	16
21	Formation of resorcinol-formaldehyde hollow nanoshells through a dissolution-regrowth process. Nanoscale, 2020, 12, 15460-15465.	2.8	13
22	Surface-initiated Redox Route to Hollow MnO <sub>2</sub> Nanostructures. ChemNanoMat, 2020, 6, 1186-1190.	1.5	9
23	Probing the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Interface Upon Lithium Uptake by Operando Small Angle Neutron Scattering. ChemSusChem, 2020, 13, 3654-3661.	3.6	9
24	Ligand exchange on noble metal nanocrystals assisted by coating and etching of cuprous oxide. Materials Chemistry Frontiers, 2020, 4, 1614-1622.	3.2	11
25	Effects of solvent formulations in electrolytes on fast charging of Li-ion cells. Electrochimica Acta, 2020, 353, 136453.	2.6	23
26	Confined Growth of Quantum Dots in Silica Spheres by Ion Exchange of Trapped NH <sub>4</sub> <sup>+</sup> for White-Light Emission. Chem, 2019, 5, 2195-2214.	5.8	26
27	Multi-colored hollow carbon-containing titania nanoshells for anti-counterfeiting applications. Journal of Materials Chemistry C, 2019, 7, 14080-14087.	2.7	19
28	Mesoporous TiO <sub>2</sub> nanospheres loaded with highly dispersed Pd nanoparticles for pH-universal hydrogen evolution reaction. Materials Today Nano, 2019, 6, 100038.	2.3	30
29	Utilization of a magnetic field-driven microscopic motion for piezoelectric energy harvesting. Nanoscale, 2019, 11, 20527-20533.	2.8	13
30	Coordination-assisted synthesis of iron-incorporated cobalt oxide nanoplates for enhanced oxygen evolution. Materials Today Chemistry, 2019, 11, 112-118.	1.7	30
31	Porous SiO <sub>2</sub> -coated Au-Ag alloy nanoparticles for the alkyne-mediated ratiometric Raman imaging analysis of hydrogen peroxide in live cells. Analytica Chimica Acta, 2019, 1057, 1-10.	2.6	17
32	Tellurium ( <sup>52</sup> Te). World Scientific Series in Nanoscience and Nanotechnology, 2019, , 545-549.	0.1	0
33	Selenium ( <sup>34</sup> Se). World Scientific Series in Nanoscience and Nanotechnology, 2019, , 359-365.	0.1	0
34	Germanium ( <sup>32</sup> Ge). World Scientific Series in Nanoscience and Nanotechnology, 2019, , 349-358.	0.1	0
35	Alkyne-DNA-Functionalized Alloyed Au/Ag Nanospheres for Ratiometric Surface-Enhanced Raman Scattering Imaging Assay of Endonuclease Activity in Live Cells. Analytical Chemistry, 2018, 90, 3898-3905.	3.2	65
36	Metal Sulfides as Excellent Co-catalysts for H <sub>2</sub> O <sub>2</sub> Decomposition in Advanced Oxidation Processes. Chem, 2018, 4, 1359-1372.	5.8	679

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37	Porous cobalt oxide nanoplates enriched with oxygen vacancies for oxygen evolution reaction. Nano Energy, 2018, 43, 110-116.	8.2	428
38	Surface Engineering of Nanostructured Energy Materials. Advanced Materials, 2018, 30, e1802091.	11.1	54
39	Reversible Assembly and Dynamic Plasmonic Tuning of Ag Nanoparticles Enabled by Limited Ligand Protection. Nano Letters, 2018, 18, 5312-5318.	4.5	57
40	Controllable Fabrication of Au Nanocups by Confined Space Thermal Dewetting for OCT Imaging. Advanced Materials, 2017, 29, 1701070.	11.1	53
41	Phase-controllable synthesis of cobalt hydroxide for electrocatalytic oxygen evolution. Dalton Transactions, 2017, 46, 10545-10548.	1.6	70
42	Oxygen Evolution Reaction: Self-Templated Fabrication of CoO <sub>2</sub> MoO <sub>2</sub> Nanocages for Enhanced Oxygen Evolution (Adv. Funct. Mater. 34/2017). Advanced Functional Materials, 2017, 27, .	7.8	2
43	Fully alloyed Ag/Au nanorods with tunable surface plasmon resonance and high chemical stability. Nanoscale, 2017, 9, 14875-14880.	2.8	56
44	Self-Templated Fabrication of CoO <sub>2</sub> MoO <sub>2</sub> Nanocages for Enhanced Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1702324.	7.8	224
45	Nanostructures: Controllable Fabrication of Au Nanocups by Confined Space Thermal Dewetting for OCT Imaging (Adv. Mater. 26/2017). Advanced Materials, 2017, 29, .	11.1	0
46	Porous Au-Ag Nanospheres with High-Density and Highly Accessible Hotspots for SERS Analysis. Nano Letters, 2016, 16, 3675-3681.	4.5	388
47	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. Chemical Reviews, 2016, 116, 10983-11060.	23.0	1,215
48	Holey Au-Ag alloy nanoplates with built-in hotspots for surface-enhanced Raman scattering. Nanoscale, 2016, 8, 15689-15695.	2.8	52
49	A pressure sensor based on the orientational dependence of plasmonic properties of gold nanorods. Nanoscale, 2015, 7, 14483-14488.	2.8	41
50	Effect of pH-induced chemical modification of hydrothermally reduced graphene oxide on supercapacitor performance. Journal of Power Sources, 2013, 233, 313-319.	4.0	180
51	Nanosized Spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Anode Material Prepared by Gel-polymer Method using Furfuryl Alcohol as Polymerizable Solvent. Chinese Journal of Chemical Physics, 2012, 25, 457-462.	0.6	2
52	Improvement of electrochemical properties of layered LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> positive electrode material by zirconium doping. Solid State Ionics, 2011, 189, 69-73.	1.3	58
53	Correlation of Oxygen Anion Redox Activity to In-Plane Honeycomb Cation Ordering in Na <sub>x</sub> Ni <sub>y</sub> Mn <sub>1-y</sub> O <sub>2</sub> Cathodes. Advanced Energy and Sustainability Research, 0, , 2200027.	2.8	3