

# Yun Zhao

## List of Publications by Year in descending order

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107  
papers

3,924  
citations

126708

33  
h-index

138251

58  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS <sub>2</sub> monolayer on vicinal a-plane sapphire. <i>Nature Nanotechnology</i> , 2022, 17, 33-38.	15.6	171
2	Cu/NC@Co/NC composites derived from core-shell Cu-MOF@Co-MOF and their electromagnetic wave absorption properties. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 182-193.	5.0	59
3	Monitoring the Material Quality of Two-Dimensional Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3797-3810.	1.5	3
4	Integrating Amorphous Molybdenum Sulfide Nanosheets with a Co <sub>9</sub> S <sub>8</sub> @Ni <sub>3</sub> S <sub>2</sub> Array as an Efficient Electrocatalyst for Overall Water Splitting. <i>Langmuir</i> , 2022, 38, 3469-3479.	1.6	21
5	Metal-organic frameworks derived Ni <sub>5</sub> P <sub>4</sub> /NC@CoFeP/NC composites for highly efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 585-593.	5.0	14
6	Preparation of Zn <sub>0.76</sub> Co <sub>0.24</sub> S@C yolk-shell sphere with phenolic resin derived carbon layer and its high electrochemical performance for sodium-ion batteries. <i>Powder Technology</i> , 2022, 404, 117422.	2.1	1
7	Rational construction of yolk-shell structured Co <sub>3</sub> Fe <sub>7</sub> /FeO@carbon composite and optimization of its microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 775-786.	5.0	22
8	Optimized Co-S bonds energy and confinement effect of hollow MXene@CoS <sub>2</sub> /NC for enhanced sodium storage kinetics and stability. <i>Chemical Engineering Journal</i> , 2022, 450, 137922.	6.6	24
9	Water-Fed Hydroxide Exchange Membrane Electrolyzer Enabled by a Fluoride-Incorporated Nickel-Iron Oxyhydroxide Oxygen Evolution Electrode. <i>ACS Catalysis</i> , 2021, 11, 264-270.	5.5	101
10	Controllable construction of core-shell CuCo <sub>2</sub> S <sub>4</sub> @polypyrrole nanocomposites as advanced anode materials for high-performance sodium ion half/full batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 293-303.	3.2	9
11	Fluorinated Polyurethane-Based Enamelled Wires with a Low Friction Coefficient. <i>ACS Omega</i> , 2021, 6, 4719-4725.	1.6	8
12	Pomegranate-like Core-Shell Ni-NSs@MSNSs as a High Activity, Good Stability, Rapid Magnetic Separation, and Multiple Recyclability Nanocatalyst for DCPD Hydrogenation. <i>ACS Omega</i> , 2021, 6, 11570-11584.	1.6	7
13	Rational Design of NiCo <sub>2</sub> S <sub>4</sub> Quantum Dot-Modified Nitrogen-Doped Carbon Nanotube Composites as Robust Pt-Free Electrocatalysts for Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 4344-4354.	2.5	16
14	Giant enhancement of optical nonlinearity in two-dimensional materials by multiphoton-excitation resonance energy transfer from quantum dots. <i>Nature Photonics</i> , 2021, 15, 510-515.	15.6	50
15	Synthesis of Aromatic Polyamide Copolymers with Reduced Dielectric Constant. <i>Polymer Science - Series B</i> , 2021, 63, 239-244.	0.3	0
16	Synthesis of Novel Fluorinated Poly(aryl ether ketone)s and Their Properties. <i>Polymer Science - Series B</i> , 2021, 63, 333-340.	0.3	3
17	Structure-Designed Preparation of Pod-Like CuCo <sub>2</sub> S <sub>4</sub> /rGO as Advanced Anode Material Targeting Superior Sodium Storage. <i>ChemElectroChem</i> , 2021, 8, 3666.	1.7	3
18	Revealing the effect of interfacial electron transfer in heterostructured Co <sub>9</sub> S <sub>8</sub> @NiFe LDH for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12244-12254.	5.2	52

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19	Light olefin production using the mixture of HZSM-5/MCM-41 and $\gamma$ -Al <sub>2</sub> O <sub>3</sub> as catalysts for catalytic pyrolysis of waste tires. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2021, 27, 69-78.	0.4	2
20	Controllable synthesis of multi-shelled SiO <sub>2</sub> @C@NiCo <sub>2</sub> O <sub>4</sub> yolk-shell composites for enhancing microwave absorbing properties. <i>New Journal of Chemistry</i> , 2021, 45, 20928-20936.	1.4	6
21	Synthesis of porous nitrogen-doped graphene decorated by $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanorings for enhancing microwave absorbing performance. <i>Ceramics International</i> , 2020, 46, 1002-1010.	2.3	35
22	Rational Design of Hierarchical Structural CoSe@NPC/CoSe@CNT Nanocomposites Derived from Metal-Organic Frameworks as a Robust Pt-free Electrocatalyst for Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2020, 5, 26253-26261.	1.6	12
23	Functionalized Core-Shell Polystyrene Sphere-Supported Alkaline Imidazolium Ionic Liquid: An Efficient and Recyclable Catalyst for Knoevenagel Condensation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18126-18137.	3.2	22
24	Structural Regulation of Magnetic Polymer Microsphere@Ionic Liquids with an Intermediate Protective Layer and Application as Core-Shell Catalysts with High Stability and Activity. <i>ACS Omega</i> , 2020, 5, 23062-23069.	1.6	12
25	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020, 15, 987-991.	15.6	94
26	Modulation of carrier lifetime in MoS <sub>2</sub> monolayer by uniaxial strain. <i>Chinese Physics B</i> , 2020, 29, 077201.	0.7	4
27	In-situ preparation of multi-layered sandwich-like CuCo <sub>2</sub> S <sub>4</sub> /rGO architectures as anode material for high-performance lithium and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156183.	2.8	20
28	Rational Design of N-Doped CuS@C Nanowires toward High-Performance Half/Full Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11317-11327.	3.2	54
29	Iron-Doped Nickel Cobalt Phosphide Nanoarrays with Urchin-like Structures as High-Performance Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6273-6281.	3.2	46
30	Construction of Porous Co <sub>9</sub> S <sub>8</sub> Hollow Boxes with Double Open Ends toward High-Performance Half/Full Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6305-6314.	3.2	46
31	Synthesis of Surface-Active Heteropolyacid-Based Ionic Liquids and Their Catalytic Performance for Desulfurization of Fuel Oils. <i>ACS Omega</i> , 2020, 5, 31171-31179.	1.6	8
32	Preparation of Yolk-Shell Structured Co <sub>x</sub> Fe <sub>1-x</sub> P with Enhanced OER Performance. <i>ChemSusChem</i> , 2019, 12, 4461-4470.	3.6	53
33	Strong-coupled hybrid structure of carbon nanotube and MoS <sub>2</sub> monolayer with ultrafast interfacial charge transfer. <i>Nanoscale</i> , 2019, 11, 17195-17200.	2.8	17
34	Rational Construction of Hierarchically Porous Fe@Co/N-Doped Carbon/rGO Composites for Broadband Microwave Absorption. <i>Nano-Micro Letters</i> , 2019, 11, 76.	14.4	135
35	One-Pot Synthesis of CuCo <sub>2</sub> S <sub>4</sub> Microspheres for High-Performance Lithium/Sodium Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 1558-1566.	1.7	20
36	Probing the synergistic effect of Mo on Ni-based catalyst in the hydrogenation of dicyclopentadiene. <i>Applied Catalysis A: General</i> , 2019, 574, 60-70.	2.2	26

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37	Hollow MoS <sub>2</sub> /rGO composites as high-performance anode materials for lithium-ion batteries. <i>Ionics</i> , 2019, 25, 4659-4666.	1.2	12
38	Universal Imaging of Full Strain Tensor in 2D Crystals with Third-Harmonic Generation. <i>Advanced Materials</i> , 2019, 31, e1808160.	11.1	32
39	MoS <sub>2</sub> microsphere@ N-doped carbon composites as high performance anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 230-236.	1.9	20
40	Controllable Synthesis of $\text{Fe}_2\text{O}_3$ Nanotube/Porous rGO Composites and Their Enhanced Microwave Absorption Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7004-7013.	3.2	78
41	Rational design of metal organic framework derived hierarchical structural nitrogen doped porous carbon coated CoSe/nitrogen doped carbon nanotubes composites as a robust Pt-free electrocatalyst for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 422, 122-130.	4.0	27
42	Alkaline Ionic Liquids Immobilized on Protective Copolymers Coated Magnetic Nanoparticles: An Efficient and Magnetically Recyclable Catalyst for Knoevenagel Condensation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 2824-2834.	1.8	22
43	Hierarchical Co <sub>9</sub> S <sub>8</sub> @Carbon Hollow Microspheres as an Anode for Sodium Ion Batteries with Ultralong Cycling Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6122-6130.	3.2	92
44	Preparation of PET/LDH composite materials and their mechanical properties and permeability for O <sub>2</sub> . <i>Polymer Engineering and Science</i> , 2019, 59, E366.	1.5	12
45	Preparation of pod-like 3D Ni <sub>0.33</sub> Co <sub>0.67</sub> Fe <sub>2</sub> O <sub>4</sub> @rGO composites and their microwave absorbing properties. <i>Ceramics International</i> , 2019, 45, 7188-7195.	2.3	23
46	Preparation of Na-alginate/CNTs composite spheres by dripping-gelatinization process and their enhanced adsorption of VB12 by freeze-casting. <i>Journal of Porous Materials</i> , 2019, 26, 353-360.	1.3	8
47	Controllable preparation of polyamide 12@SiO <sub>2</sub> composite powders. <i>Polymer Composites</i> , 2019, 40, 1251-1257.	2.3	2
48	Preparation of flower-like CoFe <sub>2</sub> O <sub>4</sub> @graphene composites and their microwave absorbing properties. <i>Materials Letters</i> , 2018, 223, 186-189.	1.3	108
49	Visualizing grain boundaries in monolayer MoSe <sub>2</sub> using mild H <sub>2</sub> O vapor etching. <i>Nano Research</i> , 2018, 11, 4082-4089.	5.8	22
50	Synthesis of well-dispersed TiO <sub>2</sub> /CNTs@CoFe <sub>2</sub> O <sub>4</sub> nanocomposites and their photocatalytic properties. <i>Materials Research Bulletin</i> , 2018, 101, 83-89.	2.7	52
51	Facile Synthesis of Co <sub>9</sub> S <sub>8</sub> Hollow Spheres as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1863-1871.	3.2	82
52	Polystyrene Nanometer-Sized Particles Supported Alkaline Imidazolium Ionic Liquids as Reusable and Efficient Catalysts for the Knoevenagel Condensation in Aqueous Phase. <i>Catalysis Letters</i> , 2018, 148, 134-143.	1.4	11
53	Rational integration of hierarchical structural CoS <sub>1.097</sub> nanosheets/reduced graphene oxide nanocomposites with enhanced electrocatalytic performance for triiodide reduction. <i>Carbon</i> , 2018, 126, 514-521.	5.4	23
54	Green Synthesis of Porous Cocoon-like rGO for Enhanced Microwave-Absorbing Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42865-42874.	4.0	68

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55	One-Pot Synthesis of NiCo <sub>2</sub> S <sub>4</sub> Hollow Spheres via Sequential Ion-Exchange as an Enhanced Oxygen Bifunctional Electrocatalyst in Alkaline Solution. ACS Applied Materials & Interfaces, 2018, 10, 29521-29531.	4.0	113
56	Core-shell MoS <sub>2</sub> @graphene composite microspheres as stable anodes for Li-ion batteries. New Journal of Chemistry, 2018, 42, 15340-15345.	1.4	15
57	Ionic liquid-assisted solvothermal synthesis of hollow CoFe <sub>2</sub> O <sub>4</sub> microspheres and their absorbing performances. Materials Letters, 2017, 193, 232-235.	1.3	18
58	Synthesis of phenoxy-ester titanium complexes with different R1 and R2 substituents and their catalytic properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 194-200.	1.2	1
59	Synthesis of well-dispersed TiO <sub>2</sub> @reduced graphene oxide (rGO) nanocomposites and their photocatalytic properties. Materials Research Bulletin, 2017, 90, 125-130.	2.7	94
60	Sandwich-like octahedral cobalt disulfide/reduced graphene oxide as an efficient Pt-free electrocatalyst for high-performance dye-sensitized solar cells. Carbon, 2017, 119, 225-234.	5.4	63
61	Facile synthesis of Co <sub>0.85</sub> Se nanotubes/reduced graphene oxide nanocomposite as Pt-free counter electrode with enhanced electrocatalytic performance in dye-sensitized solar cells. Carbon, 2017, 122, 381-388.	5.4	56
62	Core/shell structured composites of hollow spherical CoFe <sub>2</sub> O <sub>4</sub> and CNTs as absorbing materials. Journal of Alloys and Compounds, 2017, 694, 309-312.	2.8	59
63	Preparation of core-shell Zn-doped CoFe <sub>2</sub> O <sub>4</sub> cubes @CNT composites and their absorbing performances. Micro and Nano Letters, 2017, 12, 227-230.	0.6	13
64	Synthesis of magnetic nickel ferrite microspheres and their microwave absorbing properties. Chemical Research in Chinese Universities, 2016, 32, 678-681.	1.3	13
65	Controllable synthesis of hierarchical CuS/ZnS hetero-nanowires as high-performance visible-light photocatalysts. RSC Advances, 2016, 6, 110266-110273.	1.7	33
66	Magnetic CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles Supported Basic Poly(Ionic Liquid)s Catalysts: Preparation and Catalytic Performance Comparison in Transesterification and Knoevenagel Condensation. Catalysis Letters, 2016, 146, 951-959.	1.4	19
67	In situ synthesis of Mg/Fe LDO/carbon nanohelix composites as absorbing materials. Journal of Alloys and Compounds, 2016, 658, 505-512.	2.8	15
68	Synthesis of a novel titanium complex catalyst and its catalytic performance for olefin polymerization. Russian Journal of Applied Chemistry, 2015, 88, 1723-1727.	0.1	7
69	Basic polymerized imidazolide-based ionic liquid: an efficient catalyst for aqueous Knoevenagel condensation. RSC Advances, 2015, 5, 21415-21421.	1.7	12
70	Synthesis of polyoxymethylene dimethyl ethers from methylal and trioxane catalyzed by Brønsted acid ionic liquids with different alkyl groups. RSC Advances, 2015, 5, 57968-57974.	1.7	38
71	In situ Preparation of PI/Amino-Functionalized Graphene Composites and Their Properties. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 680-686.	1.0	7
72	Synthesis of methylal from methanol and formaldehyde catalyzed by Brønsted acid ionic liquids with different alkyl groups. RSC Advances, 2015, 5, 87200-87205.	1.7	15

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73	Carbon nanotube-supported bimetallic Pt-Fe catalysts for nitrobenzene hydrogenation. <i>Micro and Nano Letters</i> , 2014, 9, 97-99.	0.6	8
74	HZSM-5/MCM-41 composite molecular sieves for the catalytic cracking of endothermic hydrocarbon fuels: nano-ZSM-5 zeolites as the source. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	25
75	<i>In situ</i> preparation of polyimide/amino-functionalized carbon nanotube composites and their properties. <i>Polymer Composites</i> , 2014, 35, 1952-1959.	2.3	8
76	Preparation and magnetic properties of hollow ferrite microspheres by a gas-phase diffusion method in an ionic liquid/H <sub>2</sub> O mixed solution. <i>Journal of Materials Science</i> , 2014, 49, 3795-3804.	1.7	4
77	Synthesis of zinc-nickel ferrite nanorods and their magnetic properties. <i>RSC Advances</i> , 2014, 4, 15650-15654.	1.7	18
78	Synthesis of Polyoxymethylene Dimethyl Ethers Catalyzed by Brønsted Acid Ionic Liquids with Alkanesulfonic Acid Groups. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16254-16260.	1.8	73
79	Vapor diffusion synthesis of CoFe <sub>2</sub> O <sub>4</sub> hollow sphere/graphene composites as absorbing materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 735-744.	5.2	276
80	Preparation of rugby-shaped CoFe <sub>2</sub> O <sub>4</sub> particles and their microwave absorbing properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18033-18039.	5.2	83
81	One-step vapor diffusion synthesis of uniform CdS quantum dots/reduced graphene oxide composites as efficient visible-light photocatalysts. <i>RSC Advances</i> , 2014, 4, 23242.	1.7	27
82	In situ fabrication and characterization of cobalt ferrite nanorods/graphene composites. <i>Materials Characterization</i> , 2013, 86, 303-315.	1.9	51
83	Microemulsion-based synthesis of porous Co-Ni ferrite nanorods and their magnetic properties. <i>Journal of Alloys and Compounds</i> , 2013, 555, 95-100.	2.8	24
84	Preparation of NiFe <sub>2</sub> O <sub>4</sub> nanorod-graphene composites via an ionic liquid assisted one-step hydrothermal approach and their microwave absorbing properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5577.	5.2	334
85	Microemulsion-mediated solvothermal synthesis of hollow Co-Ni ferrite nanoparticle tubes and their magnetic properties. <i>Micro and Nano Letters</i> , 2013, 8, 68-69.	0.6	5
86	Nanostructured Nb <sub>2</sub> O <sub>5</sub> catalysts. <i>Nano Reviews</i> , 2012, 3, 17631.	3.7	168
87	Preparation of Hollow Co <sub>3</sub> O <sub>4</sub> Microspheres and Their Ethanol Sensing Properties. <i>Inorganic Chemistry</i> , 2012, 51, 11513-11520.	1.9	88
88	Preparation of Terephthalate-Intercalated Layered Double Hydroxides Using Mixed Hydroxides. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 579-582.	0.6	3
89	Hydrothermal Synthesis of Ni/Al Layered Double Hydroxide Nanorods. <i>Journal of Nanotechnology</i> , 2011, 2011, 1-6.	1.5	23
90	Preparation of carboxylate-intercalated layered double hydroxides using mixed hydroxides or oxides. <i>Micro and Nano Letters</i> , 2011, 6, 832.	0.6	4

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91	Synthesis and application on UV-curable epoxy/dendritic maleate resin. <i>Polymer Bulletin</i> , 2011, 67, 1583-1594.	1.7	2
92	Synthesis of Zn/Co/Fe-layered double hydroxide nanowires with controllable morphology in a water-in-oil microemulsion. <i>Materials Characterization</i> , 2010, 61, 227-232.	1.9	18
93	Fe-based catalysts from Mg/Fe layered double hydroxides for preparation of N-doped carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2010, 122, 612-616.	2.0	8
94	Synthesis and Characterization of Zn/Ni/Fe Magnetic Composite Oxide Nanotubes Assembled in Porous Anodic Alumina. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010, 40, 695-699.	0.6	0
95	Hydrogenation of Multi-walled Carbon Nanotubes in Ethylenediamine. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 14-23.	1.0	13
96	Preparation of a porous structure in a poly(4-methyl-1-pentene)/diphenyl ether system with a thermally induced phase-separation method. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1271-1277.	1.3	10
97	Preparation of honeycomb films from nitril poly(ether ether ketone)s via water-droplet templating. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2090-2095.	1.3	1
98	Preparation and application of Cu/Cr hydrotalcite-like compounds. <i>Journal of Materials Science</i> , 2009, 44, 4422-4428.	1.7	10
99	Catalytic synthesis of nitrogen-doped multi-walled carbon nanotubes using layered double hydroxides as catalyst precursors. <i>Journal of Chemical Sciences</i> , 2009, 121, 225-229.	0.7	23
100	Nanotube arrays of Zn/Co/Fe composite oxides assembled in porous anodic alumina and their magnetic properties. <i>Journal of Alloys and Compounds</i> , 2009, 487, 591-594.	2.8	19
101	Controlling of morphology of Ni/Al-LDHs using microemulsion-mediated hydrothermal synthesis. <i>Bulletin of Materials Science</i> , 2008, 31, 831-834.	0.8	4
102	Catalytic synthesis of carbon nanostructures using layered double hydroxides as catalyst precursors. <i>Carbon</i> , 2007, 45, 2159-2163.	5.4	39
103	Effect of microstructures of Pt catalysts supported on carbon nanotubes (CNTs) and activated carbon (AC) for nitrobenzene hydrogenation. <i>Materials Chemistry and Physics</i> , 2007, 103, 225-229.	2.0	42
104	Preparation of nickel hydroxide nanorods/nanotubes and microscopic nanorings under hydrothermal conditions. <i>Journal of Nanoparticle Research</i> , 2007, 9, 519-522.	0.8	14
105	Preparation of carbon nanofibers over carbon nanotube-nickel catalyst in propylene decomposition. <i>Journal of Materials Science</i> , 2007, 42, 4240-4244.	1.7	2
106	Mechanism of pore formation and structural characterization for mesoporous Mg-Al composite oxides. <i>Science in China Series B: Chemistry</i> , 2002, 45, 37.	0.8	11
107	Preparation of porous Zn <sub>0.76</sub> Co <sub>0.24</sub> S yolk-shell microspheres with enhanced electrochemical performance for sodium ion batteries. <i>ChemElectroChem</i> , 0, , .	1.7	0