

# Cailing Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,805  
citations

159585

30  
h-index

182427

51  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2994  
citing authors

#	ARTICLE	IF	CITATIONS
1	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. <i>CheM</i> , 2021, 7, 699-714.	11.7	197
2	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. <i>Science Advances</i> , 2020, 6, .	10.3	182
3	Direct Pyrolysis of Supermolecules: An Ultrahigh Edge $\alpha$ -Nitrogen Doping Strategy of Carbon Anodes for Potassium $\alpha$ ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2000732.	21.0	164
4	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine $\alpha$ Capture Capacity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22432-22440.	13.8	148
5	Current Advances in Lanthanide $\alpha$ Doped Upconversion Nanostructures for Detection and Bioapplication. <i>Advanced Science</i> , 2016, 3, 1600029.	11.2	147
6	Histidine-Derived Nontoxic Nitrogen-Doped Carbon Dots for Sensing and Bioimaging Applications. <i>Langmuir</i> , 2014, 30, 13542-13548.	3.5	141
7	A Low $\alpha$ Strain Phosphate Cathode for High $\alpha$ Rate and Ultralong Cycle $\alpha$ Life Potassium $\alpha$ ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25575-25582.	13.8	137
8	Tumor-Associated-Macrophage-Membrane-Coated Nanoparticles for Improved Photodynamic Immunotherapy. <i>Nano Letters</i> , 2021, 21, 5522-5531.	9.1	106
9	Efficient and simultaneous capture of iodine and methyl iodide achieved by a covalent organic framework. <i>Nature Communications</i> , 2022, 13, .	12.8	101
10	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. <i>Nano Energy</i> , 2022, 92, 106681.	16.0	97
11	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate. <i>Nature Materials</i> , 2022, 21, 740-747.	27.5	92
12	Bortezomib-Encapsulated CuS/Carbon Dot Nanocomposites for Enhanced Photothermal Therapy via Stabilization of Polyubiquitinated Substrates in the Proteasomal Degradation Pathway. <i>ACS Nano</i> , 2020, 14, 10688-10703.	14.6	88
13	Multifunctional Luminescent Porous Organic Polymer for Selectively Detecting Iron Ions and 1,4-Dioxane via Luminescent Turn-off and Turn-on Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24097-24103.	8.0	78
14	Perovskite-Nanosheet Sensitizer for Highly Efficient Organic X-ray Imaging Scintillator. <i>ACS Energy Letters</i> , 2022, 7, 10-16.	17.4	72
15	Engineering effective structural defects of metal $\alpha$ organic frameworks to enhance their catalytic performances. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4464-4472.	10.3	66
16	Giant Osmotic Energy Conversion through Vertical-Aligned Ion-Permselective Nanochannels in Covalent Organic Framework Membranes. <i>Journal of the American Chemical Society</i> , 2022, 144, 12400-12409.	13.7	62
17	One-dimensional hierarchically porous carbon from biomass with high capacitance as supercapacitor materials. <i>Microporous and Mesoporous Materials</i> , 2017, 251, 77-82.	4.4	59
18	Facile Synthesis of Highly Water $\alpha$ Soluble Lanthanide $\alpha$ Doped $\alpha$ LaVO $\alpha$ 4 $\alpha$ NPs for Antifake Ink and Latent Fingermark Detection. <i>Small</i> , 2017, 13, 1702305.	10.0	56

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19	Quantitative Evaluation of Carrier Dynamics in Full-Spectrum Responsive Metallic ZnIn <sub>2</sub> S <sub>4</sub> with Indium Vacancies for Boosting Photocatalytic CO <sub>2</sub> Reduction. Nano Letters, 2022, 22, 4970-4978.	9.1	54
20	Porous Pt Nanotubes with High Methanol Oxidation Electrocatalytic Activity Based on Original Bamboo-Shaped Te Nanotubes. ACS Applied Materials & Interfaces, 2016, 8, 16147-16153.	8.0	52
21	Saccharomyces-derived carbon dots for biosensing pH and vitamin B 12. Talanta, 2019, 195, 117-126.	5.5	52
22	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. Angewandte Chemie - International Edition, 2022, 61, .	13.8	50
23	Efficient wide-spectrum photocatalytic overall water splitting over ultrathin molecular nickel phthalocyanine/BiVO <sub>4</sub> Z-scheme heterojunctions without noble metals. Applied Catalysis B: Environmental, 2021, 295, 120260.	20.2	49
24	[Cu <sub>36</sub> H <sub>10</sub> (PET) <sub>24</sub> (PPh <sub>3</sub> ) <sub>6</sub> Cl <sub>2</sub> ] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. Journal of the American Chemical Society, 2021, 143, 11026-11035.	13.7	46
25	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation. Science Advances, 2022, 8, eabm6741.	10.3	46
26	A simple solution-phase approach to synthesize high quality ternary AgInSe <sub>2</sub> and band gap tunable quaternary AgIn(S <sub>1-x</sub> Se) <sub>2</sub> nanocrystals. Nanoscale, 2014, 6, 6782.	5.6	42
27	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. Journal of the American Chemical Society, 2021, 143, 7144-7153.	13.7	42
28	Hierarchical porous carbon@PbO <sub>1-x</sub> composite for high-performance lead-carbon battery towards renewable energy storage. Energy, 2020, 193, 116675.	8.8	34
29	Carbon nitride derived nitrogen-doped carbon nanosheets for high-rate lithium-ion storage. Chemical Engineering Science, 2021, 241, 116709.	3.8	34
30	Selective Acetylene Adsorption within an Imino-Functionalized Nanocage-Based Metal-Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 5999-6006.	8.0	33
31	Mercaptopropionic Acid-Capped Wurtzite Cu <sub>9</sub> Sn <sub>2</sub> Se <sub>9</sub> Nanocrystals as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1810-1818.	8.0	29
32	Sub-10 nm Sr <sub>2</sub> LuF <sub>7</sub> :Yb/Er@Sr <sub>2</sub> GdF <sub>7</sub> @SrF <sub>2</sub> Up-Conversion Nanocrystals for Up-Conversion Luminescence-Magnetic Resonance Computed Tomography Trimodal Bioimaging. ACS Applied Materials & Interfaces, 2017, 9, 5748-5756.	8.0	25
33	Application of Cu <sub>3</sub> InSnSe <sub>5</sub> Heteronanostructures as Counter Electrodes for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 18046-18053.	8.0	23
34	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. Energy Material Advances, 2021, 2021, .	11.0	21
35	Microwave-assisted synthesis of highly water-soluble LuVO <sub>4</sub> :Eu nanoparticles as anti-counterfeit fluorescent ink. Journal of Luminescence, 2019, 206, 560-564.	3.1	19
36	Facile Synthesis of Water-Soluble YVO <sub>4</sub> :Eu Nanoparticles for Cu <sup>2+</sup> Detection in Aqueous Solution. ChemistrySelect, 2016, 1, 1417-1420.	1.5	18

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37	Rational design of CNTs with encapsulated Co nanospheres as superior acid- and base-resistant microwave absorbers. Dalton Transactions, 2018, 47, 11554-11562.	3.3	17
38	Water-soluble, Monodisperse, Lanthanide-doped Y(Gd)VO <sub>4</sub> Nanocrystals as Promising Multimodal Bioprobe. European Journal of Inorganic Chemistry, 2015, 2015, 3108-3115.	2.0	15
39	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. Journal of Physical Chemistry Letters, 2021, 12, 10402-10409.	4.6	15
40	Microwave Assisted Hydrothermal Way Towards Highly Crystallized N-Doped Carbon Quantum Dots and Their Oxygen Reduction Performance. Chemical Research in Chinese Universities, 2019, 35, 171-178.	2.6	13
41	Methanol-to-Olefin Conversion over Small-Pore DDR Zeolites: Tuning the Propylene Selectivity via the Olefin-Based Catalytic Cycle. ACS Catalysis, 2020, 10, 3009-3017.	11.2	12
42	Laser-Assisted Synthesis of Ag <sub>2</sub> S Quantum Dot in Perovskite Matrix and Its Application in Broadband Photodetectors. Advanced Optical Materials, 2022, 10, 2101535.	7.3	10
43	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. Angewandte Chemie, 2022, 134, .	2.0	10
44	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine-Capture Capacity. Angewandte Chemie, 2021, 133, 22606-22614.	2.0	9
45	Highly dispersed Pd nanoparticles confined in ZSM-5 zeolite crystals for selective hydrogenation of cinnamaldehyde. Microporous and Mesoporous Materials, 2022, 330, 111566.	4.4	9
46	A Low-Strain Phosphate Cathode for High-Rate and Ultralong Cycle-Life Potassium-Ion Batteries. Angewandte Chemie, 2021, 133, 25779-25786.	2.0	8
47	Nano-Confinement Effects on Structural Development and Organic Solvent-Induced Swelling of Ultrathin Carbon Molecular Sieve Films. ACS Applied Materials & Interfaces, 2021, 13, 21765-21774.	8.0	7
48	A facile synthesis of water-soluble BaYF <sub>5</sub> :Ln <sup>3+</sup> NCs with excellent luminescent properties as promising contrast agent for dual-modal bioimaging. Inorganic Chemistry Communication, 2015, 62, 11-14.	3.9	6
49	Interface Engineering of Bi-Fluorescence Molecules for High-Performance Data Encryption and Ultralow UV-Light Detection. Advanced Optical Materials, 2022, 10, .	7.3	5
50	Applications of in situ electron microscopy in oxygen electrocatalysis. , 0, , .		4
51	Colloidal Synthesis of Quaternary Wurtzite Cu <sub>3</sub> AlSnS <sub>5</sub> Nanocrystals and Their Photoresponsive Properties. ChemPlusChem, 2015, 80, 652-655.	2.8	2
52	Phase and morphology evolution of NaGdF <sub>4</sub> :Yb,Er nanocrystals with power density-dependent upconversion fluorescence via one-step microwave-assisted solvothermal method. Journal of Luminescence, 2021, 239, 118283.	3.1	1