

# Chao Wu

## 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.

61  
papers

6,658  
citations

37  
h-index

68  
g-index

68  
ext. papers

7,859  
ext. citations

13.2  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
61	Carbon-based current collector materials for sodium metal anodes. <i>New Carbon Materials</i> , <b>2022</b> , 37, 93-108	14.8	0
60	Recent Progress on Fe-Based Single/Dual-Atom Catalysts for Zn-Air Batteries.. <i>Small</i> , <b>2022</b> , e2106635	11	5
59	Towards stable sodium metal battery with high voltage output through dual electrolyte design. <i>Energy Storage Materials</i> , <b>2022</b> , 48, 466-474	19.4	0
58	Stable Sodium Metal Anodes Enabled by an In-situ Generated Mixed-Ion/Electron-Conducting Interface. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136917	14.7	
57	Highly Stable Lithium/Sodium Metal Batteries with High Utilization Enabled by a Holey Two-Dimensional N-Doped TiNbO Host. <i>Nano Letters</i> , <b>2021</b> ,	11.5	8
56	2D anionic nanosheet additive for stable Zn metal anodes in aqueous electrolyte. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 133042	14.7	5
55	Bi Nanoparticles Embedded in 2D Carbon Nanosheets as an Interfacial Layer for Advanced Sodium Metal Anodes. <i>Small</i> , <b>2021</b> , 17, e2007578	11	11
54	2D Sn/C freestanding frameworks as a robust nucleation layer for highly stable sodium metal anodes with a high utilization. <i>Nano Energy</i> , <b>2021</b> , 79, 105457	17.1	18
53	Highly reversible and dendrite-free Zn electrodeposition enabled by a thin metallic interfacial layer in aqueous batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 128062	14.7	29
52	Stable Sodium Metal Anode Enabled by an Interface Protection Layer Rich in Organic Sulfide Salt. <i>Nano Letters</i> , <b>2021</b> , 21, 619-627	11.5	21
51	An in-depth insight of a highly reversible and dendrite-free Zn metal anode in an hybrid electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4253-4261	13	23
50	Constructing nitrated interfaces for stabilizing Li metal electrodes in liquid electrolytes. <i>Chemical Science</i> , <b>2021</b> , 12, 8945-8966	9.4	14
49	Stable sodium metal anodes with a high utilization enabled by an interfacial layer composed of yolk-shell nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13200-13208	13	4
48	Dendrites-Free Zn Metal Anodes Enabled by an Artificial Protective Layer Filled with 2D Anionic Nanosheets.. <i>Small Methods</i> , <b>2021</b> , 5, e2100650	12.8	17
47	An in-situ formed stable interface layer for high-performance sodium metal anode in a non-flammable electrolyte. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 145-153	19.4	13
46	Core-Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. <i>Nano Letters</i> , <b>2020</b> , 20, 4464-4471	11.5	34
45	An In-Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Zn-Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003021	24	286

44	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6596-6600	16.4	43
43	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6658-6662	3.6	11
42	Computable Bulk and Interfacial Electronic Structure Features as Proxies for Dielectric Breakdown of Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37182-37187	9.5	11
41	Graphene-Encapsulated CuP: A Promising Anode Material with High Reversible Capacity and Superior Rate-Performance for Sodium-Ion Batteries. <i>Nano Letters</i> , <b>2019</b> , 19, 2575-2582	11.5	43
40	Stable lithium metal anodes enabled by inorganic/organic double-layered alloy and polymer coating. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25369-25376	13	16
39	The State and Challenges of Anode Materials Based on Conversion Reactions for Sodium Storage. <i>Small</i> , <b>2018</b> , 14, e1703671	11	83
38	Effect of Cu-Ti-C reaction composition on reinforcing particles size of TiC x /Cu composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2018</b> , 33, 43-48	1	7
37	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 122-129	19.4	36
36	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 2034-2042	11.5	306
35	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700431	24	346
34	A High Power High Energy Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5207-5215	9.6	109
33	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605607	24	97
32	High Performance Graphene/Ni P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolk-Shell-Like Nanostructural Design. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604015	24	193
31	Superior Sodium Storage in Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanotube Arrays through Surface Engineering. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502568	21.8	189
30	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 7276-83	24	212
29	Self-Supported Nanotube Arrays of Sulfur-Doped TiO <sub>2</sub> Enabling Ultrastable and Robust Sodium Storage. <i>Advanced Materials</i> , <b>2016</b> , 28, 2259-65	24	385
28	MOF-Derived Hollow Co <sub>9</sub> S <sub>8</sub> Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. <i>Small</i> , <b>2016</b> , 12, 2354-64	11	274
27	Generalizable Synthesis of Metal-Sulfides/Carbon Hybrids with Multiscale, Hierarchically Ordered Structures as Advanced Electrodes for Lithium Storage. <i>Advanced Materials</i> , <b>2016</b> , 28, 174-80	24	127

26	Sn-Based Nanoparticles Encapsulated in a Porous 3D Graphene Network: Advanced Anodes for High-Rate and Long Life Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3488-3496	15.6	142
25	Free-standing graphene-based porous carbon films with three-dimensional hierarchical architecture for advanced flexible Li/Sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9438-9445	13	46
24	An Advanced Sodium-Ion Battery Composed of Carbon Coated NaV(PO <sub>3</sub> ) <sub>4</sub> in a Porous Graphene Network. <i>Advanced Materials</i> , <b>2015</b> , 27, 6670-6	24	363
23	Uniform yolk-shell Sn <sub>4</sub> P <sub>3</sub> @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3531-3538	35.4	350
22	Graphene-Protected 3D Sb-based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. <i>Small</i> , <b>2015</b> , 11, 6026-35	11	75
21	Synthesizing Porous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. <i>ACS Nano</i> , <b>2015</b> , 9, 6610-8	16.7	213
20	3D V <sub>2</sub> O <sub>5</sub> Nanotextiles assembled from interconnected nanogrooves as cathode materials for high-energy lithium ion batteries. <i>Nano Letters</i> , <b>2015</b> , 15, 1388-94	11.5	160
19	Three-dimensional highly conductive graphene-silver nanowire hybrid foams for flexible and stretchable conductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21026-34	9.5	102
18	Role of interface in highly filled epoxy/BaTiO <sub>3</sub> nanocomposites. Part II- effect of nanoparticle surface chemistry on processing, thermal expansion, energy storage and breakdown strength of the nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 480-487	2.3	40
17	Role of interface in highly filled epoxy/BaTiO <sub>3</sub> nanocomposites. Part I-correlation between nanoparticle surface chemistry and nanocomposite dielectric property. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 467-479	2.3	45
16	A crosslinking method of UHMWPE irradiated by electron beam using TMPTMA as radiosensitizer. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 111-119	2.9	12
15	Mechanically flexible and multifunctional polymer-based graphene foams for elastic conductors and oil-water separators. <i>Advanced Materials</i> , <b>2013</b> , 25, 5658-62	24	307
14	Alumina-coated graphene sheet hybrids for electrically insulating polymer composites with high thermal conductivity. <i>RSC Advances</i> , <b>2013</b> , 3, 17373	3.7	155
13	Graphene oxide-encapsulated carbon nanotube hybrids for high dielectric performance nanocomposites with enhanced energy storage density. <i>Nanoscale</i> , <b>2013</b> , 5, 3847-55	7.7	157
12	Highly Conductive Nanocomposites with Three-Dimensional, Compactly Interconnected Graphene Networks via a Self-Assembly Process. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 506-513	15.6	180
11	Influence of interface structure on dielectric properties of epoxy/alumina nanocomposites. <i>Macromolecular Research</i> , <b>2012</b> , 20, 816-826	1.9	81
10	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7010		217
9	Fabrication of two-dimensional hybrid sheets by decorating insulating PANI on reduced graphene oxide for polymer nanocomposites with low dielectric loss and high dielectric constant. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23477		162

8	Flammability of EVA/IFR (APP/PER/ZB system) and EVA/IFR/synergist (CaCO <sub>3</sub> , NG, and EG) composites. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, 1917-1928	2.9	29
7	Permittivity, thermal conductivity and thermal stability of poly(vinylidene fluoride)/graphene nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 478-484	2.3	139
6	Core-shell structured poly(methyl methacrylate)/BaTiO <sub>3</sub> nanocomposites prepared by in situ atom transfer radical polymerization: a route to high dielectric constant materials with the inherent low loss of the base polymer. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5897		307
5	Preparation of hyperbranched aromatic polyamide grafted nanoparticles for thermal properties reinforcement of epoxy composites. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 1380	4.9	106
4	Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. <i>Polymer Composites</i> , <b>2011</b> , 32, 1483-1491	3	63
3	Morphology-controllable graphene/TiO <sub>2</sub> nanorod hybrid nanostructures for polymer composites with high dielectric performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17729		114
2	Preparation of PbSe nanoparticles by electron beam irradiation method. <i>Bulletin of Materials Science</i> , <b>2008</b> , 31, 825-829	1.7	7
1	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. <i>Energy and Environmental Science</i> ,	35.4	75