Chao Wu

List of Publications by Year
in descending order

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Version: 2024-02-01

67	9,058	57758	98798
papers	citations	44 h-index	67 g-index

68	68	68	10006
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Inâ€Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Znâ€Ion Batteries. Advanced Materials, 2020, 32, e2003021.	21.0	707
2	Challenges and Perspectives for NASICONâ€Type Electrode Materials for Advanced Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700431.	21.0	499
3	Selfâ€Supported Nanotube Arrays of Sulfurâ€Doped TiO₂ Enabling Ultrastable and Robust Sodium Storage. Advanced Materials, 2016, 28, 2259-2265.	21.0	457
4	An Advanced Sodiumâ€Ion Battery Composed of Carbon Coated Na₃V₂(PO₄)₃ in a Porous Graphene Network. Advanced Materials, 2015, 27, 6670-6676.	21.0	448
5	Uniform yolkâ€“shell Sn₄P₃@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. Energy and Environmental Science, 2015, 8, 3531-3538.	30.8	401
6	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolkâ€“Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. Nano Letters, 2017, 17, 2034-2042.	9.1	386
7	Mechanically Flexible and Multifunctional Polymerâ€Based Graphene Foams for Elastic Conductors and Oilâ€Water Separators. Advanced Materials, 2013, 25, 5658-5662.	21.0	358
8	Core-shell structured poly(methyl methacrylate)/BaTiO3 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. Journal of Materials Chemistry, 2011, 21, 5897.	6.7	349
9	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. Energy and Environmental Science, 2021, 14, 5669-5689.	30.8	314
10	MOFâ€Derived Hollow Co₉S₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Liâ€Ion Storage. Small, 2016, 12, 2354-2364.	10.0	306
11	Synthesizing Porous NaTi₂(PO₄)₃ Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. ACS Nano, 2015, 9, 6610-6618.	14.6	260
12	Peapodâ€Like Carbonâ€Encapsulated Cobalt Chalcogenide Nanowires as Cycleâ€Stable and Highâ€Rate Materials for Sodiumâ€Ion Anodes. Advanced Materials, 2016, 28, 7276-7283.	21.0	237
13	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. Journal of Materials Chemistry, 2012, 22, 7010.	6.7	235
14	High Performance Graphene/Ni₂P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolkâ€“Shellâ€Like Nanostructural Design. Advanced Materials, 2017, 29, 1604015.	21.0	220
15	Superior Sodium Storage in Na₂Ti₃O₇ Nanotube Arrays through Surface Engineering. Advanced Energy Materials, 2016, 6, 1502568.	19.5	219
16	Highly Conductive Nanocomposites with Threeâ€Dimensional, Compactly Interconnected Graphene Networks via a Selfâ€Assembly Process. Advanced Functional Materials, 2013, 23, 506-513.	14.9	200
17	3D V₆O₁₃ Nanotextiles Assembled from Interconnected Nanogrooves as Cathode Materials for High-Energy Lithium Ion Batteries. Nano Letters, 2015, 15, 1388-1394.	9.1	194
18	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. Journal of Materials Chemistry, 2012, 22, 23477.	6.7	183

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19	Graphene oxide-encapsulated carbon nanotube hybrids for high dielectric performance nanocomposites with enhanced energy storage density. Nanoscale, 2013, 5, 3847.	5.6	182
20	Alumina-coated graphene sheet hybrids for electrically insulating polymer composites with high thermal conductivity. RSC Advances, 2013, 3, 17373.	3.6	176
21	Permittivity, thermal conductivity and thermal stability of poly(vinylidene fluoride)/graphene nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 478-484.	2.9	160
22	Snâ€Based Nanoparticles Encapsulated in a Porous 3D Graphene Network: Advanced Anodes for Highâ€Rate and Long Life Liâ€Ion Batteries. Advanced Functional Materials, 2015, 25, 3488-3496.	14.9	156
23	Generalizable Synthesis of Metalâ€Sulfides/Carbon Hybrids with Multiscale, Hierarchically Ordered Structures as Advanced Electrodes for Lithium Storage. Advanced Materials, 2016, 28, 174-180.	21.0	145
24	A High Powerâ€“High Energy Na₃V₂(PO₄)₂F₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. Chemistry of Materials, 2017, 29, 5207-5215.	6.7	141
25	Morphology-controllable grapheneâ€“TiO2 nanorod hybrid nanostructures for polymer composites with high dielectric performance. Journal of Materials Chemistry, 2011, 21, 17729.	6.7	130
26	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. Advanced Materials, 2017, 29, 1605607.	21.0	122
27	Three-Dimensional Highly Conductive Grapheneâ€“Silver Nanowire Hybrid Foams for Flexible and Stretchable Conductors. ACS Applied Materials & Interfaces, 2014, 6, 21026-21034.	8.0	118
28	Preparation of hyperbranched aromatic polyamide grafted nanoparticles for thermal properties reinforcement of epoxy composites. Polymer Chemistry, 2011, 2, 1380.	3.9	117
29	The State and Challenges of Anode Materials Based on Conversion Reactions for Sodium Storage. Small, 2018, 14, e1703671.	10.0	106
30	Influence of interface structure on dielectric properties of epoxy/alumina nanocomposites. Macromolecular Research, 2012, 20, 816-826.	2.4	100
31	Dendriteâ€Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolateâ€Rich Protection Layer. Angewandte Chemie - International Edition, 2020, 59, 6596-6600.	13.8	89
32	Grapheneâ€Protected 3D Sbâ€based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. Small, 2015, 11, 6026-6035.	10.0	87
33	Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. Polymer Composites, 2011, 32, 1483-1491.	4.6	77
34	Coreâ€“Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. Nano Letters, 2020, 20, 4464-4471.	9.1	75
35	Highly reversible and dendrite-free Zn electrodeposition enabled by a thin metallic interfacial layer in aqueous batteries. Chemical Engineering Journal, 2021, 416, 128062.	12.7	75
36	Constructing nitrided interfaces for stabilizing Li metal electrodes in liquid electrolytes. Chemical Science, 2021, 12, 8945-8966.	7.4	72

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37	An in-depth insight of a highly reversible and dendrite-free Zn metal anode in an hybrid electrolyte. Journal of Materials Chemistry A, 2021, 9, 4253-4261.	10.3	67
38	Role of interface in highly filled epoxy/BaTiO₃ nanocomposites. Part I-correlation between nanoparticle surface chemistry and nanocomposite dielectric property. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 467-479.	2.9	60
39	Graphene-Encapsulated CuP₂: A Promising Anode Material with High Reversible Capacity and Superior Rate-Performance for Sodium-Ion Batteries. Nano Letters, 2019, 19, 2575-2582.	9.1	60
40	Stable Sodium Metal Anode Enabled by an Interface Protection Layer Rich in Organic Sulfide Salt. Nano Letters, 2021, 21, 619-627.	9.1	58
41	Free-standing graphene-based porous carbon films with three-dimensional hierarchical architecture for advanced flexible Liâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 9438-9445.	10.3	51
42	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. Energy Storage Materials, 2018, 10, 122-129.	18.0	50
43	Dendritesâ€Free Zn Metal Anodes Enabled by an Artificial Protective Layer Filled with 2D Anionic Nanosheets. Small Methods, 2021, 5, e2100650.	8.6	50
44	Recent Progress on Feâ€Based Single/Dualâ€Atom Catalysts for Znâ€“Air Batteries. Small, 2022, 18, e2106635.	10.0	47
45	2D Sn/C freestanding frameworks as a robust nucleation layer for highly stable sodium metal anodes with a high utilization. Nano Energy, 2021, 79, 105457.	16.0	46
46	Role of interface in highly filled epoxy/BaTiO₃nanocomposites. Part II- effect of nanoparticle surface chemistry on processing, thermal expansion, energy storage and breakdown strength of the nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 480-487.	2.9	43
47	An in-situ formed stable interface layer for high-performance sodium metal anode in a non-flammable electrolyte. Energy Storage Materials, 2021, 42, 145-153.	18.0	42
48	Stable lithium metal anodes enabled by inorganic/organic double-layered alloy and polymer coating. Journal of Materials Chemistry A, 2019, 7, 25369-25376.	10.3	35
49	Dendriteâ€Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolateâ€Rich Protection Layer. Angewandte Chemie, 2020, 132, 6658-6662.	2.0	33
50	Molecularly engineered three-dimensional covalent organic framework protection films for highly stable zinc anodes in aqueous electrolyte. Energy Storage Materials, 2022, 51, 391-399.	18.0	31
51	Flammability of EVA/IFR (APP/PER/ZB system) and EVA/IFR/synergist (CaCO₃, NG, and EG) composites. Journal of Applied Polymer Science, 2012, 126, 1917-1928.	2.6	30
52	Bi Nanoparticles Embedded in 2D Carbon Nanosheets as an Interfacial Layer for Advanced Sodium Metal Anodes. Small, 2021, 17, e2007578.	10.0	28
53	2D anionic nanosheet additive for stable Zn metal anodes in aqueous electrolyte. Chemical Engineering Journal, 2022, 430, 133042.	12.7	22
54	Computable Bulk and Interfacial Electronic Structure Features as Proxies for Dielectric Breakdown of Polymers. ACS Applied Materials & Interfaces, 2020, 12, 37182-37187.	8.0	21

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55	Stable sodium metal anodes with a high utilization enabled by an interfacial layer composed of yolkâ€“shell nanoparticles. Journal of Materials Chemistry A, 2021, 9, 13200-13208.	10.3	21
56	Double interface regulation: Toward highly stable lithium metal anode with high utilization. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	21
57	Highly Stable Lithium/Sodium Metal Batteries with High Utilization Enabled by a Holey Two-Dimensional N-Doped TiNb₂O₇ Host. Nano Letters, 2021, 21, 10453-10461.	9.1	18
58	A crosslinking method of UHMWPE irradiated by electron beam using TMPTMA as radiosensitizer. Journal of Applied Polymer Science, 2013, 127, 111-119.	2.6	16
59	Carbon-based current collector materials for sodium metal anodes. New Carbon Materials, 2022, 37, 93-108.	6.1	11
60	Towards stable sodium metal battery with high voltage output through dual electrolyte design. Energy Storage Materials, 2022, 48, 466-474.	18.0	10
61	Preparation of PbSe nanoparticles by electron beam irradiation method. Bulletin of Materials Science, 2008, 31, 825-829.	1.7	9
62	Effect of Cu-Ti-C reaction composition on reinforcing particles size of TiC x /Cu composites. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 43-48.	1.0	8
63	An in-situ generated Bi-based sodiophilic substrate with high structural stability for high-performance sodium metal batteries. Journal of Energy Chemistry, 2022, 71, 595-603.	12.9	7
64	Understanding the morphology evolution of 1D BiVO₄ nanoarrays from nanorods to nanocones with enhanced photocatalytic performance. CrystEngComm, 2022, 24, 3297-3306.	2.6	6
65	Honeycomb-like 3D carbon skeletons with embedded phosphorus-rich phosphide nanoparticles as advanced anodes for lithium-ion batteries. Nanoscale, 2022, 14, 8744-8752.	5.6	6
66	Stable sodium metal anodes enabled by an in-situ generated mixed-ion/electron-conducting interface. Chemical Engineering Journal, 2022, 446, 136917.	12.7	5
67	Functional graphene for high dielectric performance polymer composites. , 2013, , .		0