

Chao Wu

List of Publications by Year in descending order

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57631

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	An In-Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Zn-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2003021.	11.1	707
2	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1700431.	11.1	499
3	Self-Supported Nanotube Arrays of Sulfur-Doped TiO ₂ Enabling Ultrastable and Robust Sodium Storage. <i>Advanced Materials</i> , 2016, 28, 2259-2265.	11.1	457
4	An Advanced Sodium-Ion Battery Composed of Carbon Coated Na ₃ V ₂ (PO ₄) ₃ in a Porous Graphene Network. <i>Advanced Materials</i> , 2015, 27, 6670-6676.	11.1	448
5	Uniform yolk-shell Sn ₄ P ₃ @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3531-3538.	15.6	401
6	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> , 2017, 17, 2034-2042.	4.5	386
7	Mechanically Flexible and Multifunctional Polymer-Based Graphene Foams for Elastic Conductors and Oil-Water Separators. <i>Advanced Materials</i> , 2013, 25, 5658-5662.	11.1	358
8	Core-shell structured poly(methyl methacrylate)/BaTiO ₃ 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> , 2011, 21, 5897.	6.7	349
9	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. <i>Energy and Environmental Science</i> , 2021, 14, 5669-5689.	15.6	314
10	MOF-Derived Hollow Co ₉ S ₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. <i>Small</i> , 2016, 12, 2354-2364.	5.2	306
11	Synthesizing Porous NaTi ₂ (PO ₄) ₃ Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. <i>ACS Nano</i> , 2015, 9, 6610-6618.	7.3	260
12	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. <i>Advanced Materials</i> , 2016, 28, 7276-7283.	11.1	237
13	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 7010.	6.7	235
14	High Performance Graphene/Ni ₂ P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolk-Shell-Like Nanostructural Design. <i>Advanced Materials</i> , 2017, 29, 1604015.	11.1	220
15	Superior Sodium Storage in Na ₂ Ti ₃ O ₇ Nanotube Arrays through Surface Engineering. <i>Advanced Energy Materials</i> , 2016, 6, 1502568.	10.2	219
16	Highly Conductive Nanocomposites with Three-Dimensional, Compactly Interconnected Graphene Networks via a Self-Assembly Process. <i>Advanced Functional Materials</i> , 2013, 23, 506-513.	7.8	200
17	3D V ₆ O ₁₃ Nanotextiles Assembled from Interconnected Nanogrooves as Cathode Materials for High-Energy Lithium Ion Batteries. <i>Nano Letters</i> , 2015, 15, 1388-1394.	4.5	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. <i>Journal of Materials Chemistry</i> , 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. <i>Nanoscale</i> , 2013, 5, 3847.	2.8	182
20	Alumina-coated graphene sheet hybrids for electrically insulating polymer composites with high thermal conductivity. <i>RSC Advances</i> , 2013, 3, 17373.	1.7	176
21	Permittivity, thermal conductivity and thermal stability of poly(vinylidene fluoride)/graphene nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 478-484.	1.8	160
22	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> , 2015, 25, 3488-3496.	7.8	156
23	Generalizable Synthesis of Metal-Sulfides/Carbon Hybrids with Multiscale, Hierarchically Ordered Structures as Advanced Electrodes for Lithium Storage. <i>Advanced Materials</i> , 2016, 28, 174-180.	11.1	145
24	A High Power-High Energy Na ₃ V ₂ (PO ₄) ₂ F ₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. <i>Chemistry of Materials</i> , 2017, 29, 5207-5215.	3.2	141
25	Morphology-controllable graphene-TiO ₂ nanorod hybrid nanostructures for polymer composites with high dielectric performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 17729.	6.7	130
26	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. <i>Advanced Materials</i> , 2017, 29, 1605607.	11.1	122
27	Three-Dimensional Highly Conductive Graphene-Silver Nanowire Hybrid Foams for Flexible and Stretchable Conductors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21026-21034.	4.0	118
28	Preparation of hyperbranched aromatic polyamide grafted nanoparticles for thermal properties reinforcement of epoxy composites. <i>Polymer Chemistry</i> , 2011, 2, 1380.	1.9	117
29	The State and Challenges of Anode Materials Based on Conversion Reactions for Sodium Storage. <i>Small</i> , 2018, 14, e1703671.	5.2	106
30	Influence of interface structure on dielectric properties of epoxy/alumina nanocomposites. <i>Macromolecular Research</i> , 2012, 20, 816-826.	1.0	100
31	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6596-6600.	7.2	89
32	Graphene-Protected 3D Sb-Based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. <i>Small</i> , 2015, 11, 6026-6035.	5.2	87
33	Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. <i>Polymer Composites</i> , 2011, 32, 1483-1491.	2.3	77
34	Core-Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. <i>Nano Letters</i> , 2020, 20, 4464-4471.	4.5	75
35	Highly reversible and dendrite-free Zn electrodeposition enabled by a thin metallic interfacial layer in aqueous batteries. <i>Chemical Engineering Journal</i> , 2021, 416, 128062.	6.6	75
36	Constructing nitrated interfaces for stabilizing Li metal electrodes in liquid electrolytes. <i>Chemical Science</i> , 2021, 12, 8945-8966.	3.7	72

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37	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> , 2021, 9, 4253-4261.	5.2	67
38	Role of interface in highly filled epoxy/BaTiO ₃ nanocomposites. Part I-correlation between nanoparticle surface chemistry and nanocomposite dielectric property. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 467-479.	1.8	60
39	Graphene-Encapsulated CuP ₂ : A Promising Anode Material with High Reversible Capacity and Superior Rate-Performance for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 2575-2582.	4.5	60
40	Stable Sodium Metal Anode Enabled by an Interface Protection Layer Rich in Organic Sulfide Salt. <i>Nano Letters</i> , 2021, 21, 619-627.	4.5	58
41	Free-standing graphene-based porous carbon films with three-dimensional hierarchical architecture for advanced flexible Li-S sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9438-9445.	5.2	51
42	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. <i>Energy Storage Materials</i> , 2018, 10, 122-129.	9.5	50
43	Dendrites-Free Zn Metal Anodes Enabled by an Artificial Protective Layer Filled with 2D Anionic Nanosheets. <i>Small Methods</i> , 2021, 5, e2100650.	4.6	50
44	Recent Progress on Fe-Based Single/Dual-Atom Catalysts for Zn-Air Batteries. <i>Small</i> , 2022, 18, e2106635.	5.2	47
45	2D Sn/C freestanding frameworks as a robust nucleation layer for highly stable sodium metal anodes with a high utilization. <i>Nano Energy</i> , 2021, 79, 105457.	8.2	46
46	Role of interface in highly filled epoxy/BaTiO ₃ 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> , 2014, 21, 480-487.	1.8	43
47	An in-situ formed stable interface layer for high-performance sodium metal anode in a non-flammable electrolyte. <i>Energy Storage Materials</i> , 2021, 42, 145-153.	9.5	42
48	Stable lithium metal anodes enabled by inorganic/organic double-layered alloy and polymer coating. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25369-25376.	5.2	35
49	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. <i>Angewandte Chemie</i> , 2020, 132, 6658-6662.	1.6	33
50	Molecularly engineered three-dimensional covalent organic framework protection films for highly stable zinc anodes in aqueous electrolyte. <i>Energy Storage Materials</i> , 2022, 51, 391-399.	9.5	31
51	Flammability of EVA/IFR (APP/PER/ZB system) and EVA/IFR/synergist (CaCO ₃ , NG, and EG) composites. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1917-1928.	1.3	30
52	Bi Nanoparticles Embedded in 2D Carbon Nanosheets as an Interfacial Layer for Advanced Sodium Metal Anodes. <i>Small</i> , 2021, 17, e2007578.	5.2	28
53	2D anionic nanosheet additive for stable Zn metal anodes in aqueous electrolyte. <i>Chemical Engineering Journal</i> , 2022, 430, 133042.	6.6	22
54	Computable Bulk and Interfacial Electronic Structure Features as Proxies for Dielectric Breakdown of Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37182-37187.	4.0	21

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55	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> , 2021, 9, 13200-13208.	5.2	21
56	Double interface regulation: Toward highly stable lithium metal anode with high utilization. <i>Informa Mater</i> , 2022, 4, .	8.5	21
57	Highly Stable Lithium/Sodium Metal Batteries with High Utilization Enabled by a Holey Two-Dimensional N-Doped TiNb ₂ O ₇ Host. <i>Nano Letters</i> , 2021, 21, 10453-10461.	4.5	18
58	A crosslinking method of UHMWPE irradiated by electron beam using TMPTMA as radiosensitizer. <i>Journal of Applied Polymer Science</i> , 2013, 127, 111-119.	1.3	16
59	Carbon-based current collector materials for sodium metal anodes. <i>New Carbon Materials</i> , 2022, 37, 93-108.	2.9	11
60	Towards stable sodium metal battery with high voltage output through dual electrolyte design. <i>Energy Storage Materials</i> , 2022, 48, 466-474.	9.5	10
61	Preparation of PbSe nanoparticles by electron beam irradiation method. <i>Bulletin of Materials Science</i> , 2008, 31, 825-829.	0.8	9
62	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> , 2018, 33, 43-48.	0.4	8
63	An in-situ generated Bi-based sodiophilic substrate with high structural stability for high-performance sodium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 595-603.	7.1	7
64	Understanding the morphology evolution of 1D BiVO ₄ nanoarrays from nanorods to nanocones with enhanced photocatalytic performance. <i>CrystEngComm</i> , 2022, 24, 3297-3306.	1.3	6
65	Honeycomb-like 3D carbon skeletons with embedded phosphorus-rich phosphide nanoparticles as advanced anodes for lithium-ion batteries. <i>Nanoscale</i> , 2022, 14, 8744-8752.	2.8	6
66	Stable sodium metal anodes enabled by an in-situ generated mixed-ion/electron-conducting interface. <i>Chemical Engineering Journal</i> , 2022, 446, 136917.	6.6	5
67	Functional graphene for high dielectric performance polymer composites. , 2013, , .		0