Chao Wu

List of Publications by Citations

61	6,658	37	68
papers	citations	h-index	g-index
68	7,859	13.2	6.19
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	Self-Supported Nanotube Arrays of Sulfur-Doped TiO2 Enabling Ultrastable and Robust Sodium Storage. *Advanced Materials*, **2016**, 28, 2259-65	24	385
60	An Advanced Sodium-Ion Battery Composed of Carbon Coated Na□V□(PO□)□ in a Porous Graphene Network. *Advanced Materials*, **2015**, 27, 6670-6	24	363
59	Uniform yolk□shell Sn4P3@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. *Energy and Environmental Science*, **2015**, 8, 3531-3538	35.4	350
58	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1700431	24	346
57	Mechanically flexible and multifunctional polymer-based graphene foams for elastic conductors and oil-water separators. *Advanced Materials*, **2013**, 25, 5658-62	24	307
56	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		307
55	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. *Nano Letters*, **2017**, 17, 2034-2042	11.5	306
54	An In-Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Zn-Ion Batteries. *Advanced Materials*, **2020**, 32, e2003021	24	286
53	MOF-Derived Hollow Co9 S8 Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. *Small*, **2016**, 12, 2354-64	11	274
52	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. *Journal of Materials Chemistry*, **2012**, 22, 7010		217
51	Synthesizing Porous NaTi2(PO4)3 Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. *ACS Nano*, **2015**, 9, 6610-8	16.7	213
50	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. *Advanced Materials*, **2016**, 28, 7276-83	24	212
49	High Performance Graphene/Ni P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolk-Shell-Like Nanostructural Design. *Advanced Materials*, **2017**, 29, 1604015	24	193
48	Superior Sodium Storage in Na2Ti3O7 Nanotube Arrays through Surface Engineering. *Advanced Energy Materials*, **2016**, 6, 1502568	21.8	189
47	Highly Conductive Nanocomposites with Three-Dimensional, Compactly Interconnected Graphene Networks via a Self-Assembly Process. *Advanced Functional Materials*, **2013**, 23, 506-513	15.6	180
46	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		162
45	3D V□□ nanotextiles assembled from interconnected nanogrooves as cathode materials for high-energy lithium ion batteries. *Nano Letters*, **2015**, 15, 1388-94	11.5	160

44	Graphene oxide-encapsulated carbon nanotube hybrids for high dielectric performance nanocomposites with enhanced energy storage density. *Nanoscale*, **2013**, 5, 3847-55	7.7	157
43	Alumina-coated graphene sheet hybrids for electrically insulating polymer composites with high thermal conductivity. *RSC Advances*, **2013**, 3, 17373	3.7	155
42	Sn-Based Nanoparticles Encapsulated in a Porous 3D Graphene Network: Advanced Anodes for High-Rate and Long Life Li-Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 3488-3496	15.6	142
41	Permittivity, thermal conductivity and thermal stability of poly(vinylidene fluoride)/graphene nanocomposites. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2011**, 18, 478-484	2.3	139
40	Generalizable Synthesis of Metal-Sulfides/Carbon Hybrids with Multiscale, Hierarchically Ordered Structures as Advanced Electrodes for Lithium Storage. *Advanced Materials*, **2016**, 28, 174-80	24	127
39	Morphology-controllable graphene□TiO2 nanorod hybrid nanostructures for polymer composites with high dielectric performance. *Journal of Materials Chemistry*, **2011**, 21, 17729		114
38	A High Power□High Energy Na3V2(PO4)2F3 Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. *Chemistry of Materials*, **2017**, 29, 5207-5215	9.6	109
37	Preparation of hyperbranched aromatic polyamide grafted nanoparticles for thermal properties reinforcement of epoxy composites. *Polymer Chemistry*, **2011**, 2, 1380	4.9	106
36	Three-dimensional highly conductive graphene-silver nanowire hybrid foams for flexible and stretchable conductors. *ACS Applied Materials & Interfaces*, **2014**, 6, 21026-34	9.5	102
35	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. *Advanced Materials*, **2017**, 29, 1605607	24	97
34	The State and Challenges of Anode Materials Based on Conversion Reactions for Sodium Storage. *Small*, **2018**, 14, e1703671	11	83
33	Influence of interface structure on dielectric properties of epoxy/alumina nanocomposites. *Macromolecular Research*, **2012**, 20, 816-826	1.9	81
32	Graphene-Protected 3D Sb-based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. *Small*, **2015**, 11, 6026-35	11	75
31	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. *Energy and Environmental Science*,	35.4	75
30	Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. *Polymer Composites*, **2011**, 32, 1483-1491	3	63
29	Free-standing graphene-based porous carbon films with three-dimensional hierarchical architecture for advanced flexible Li□sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 9438-9445	13	46
28	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	2.3	45
27	Graphene-Encapsulated CuP: A Promising Anode Material with High Reversible Capacity and Superior Rate-Performance for Sodium-Ion Batteries. *Nano Letters*, **2019**, 19, 2575-2582	11.5	43

26	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. *Angewandte Chemie - International Edition*, **2020**, 59, 6596-6600	16.4	43
25	Role of interface in highly filled epoxy/BaTiO3 nanocomposites. 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	2.3	40
24	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. *Energy Storage Materials*, **2018**, 10, 122-129	19.4	36
23	Core-Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. *Nano Letters*, **2020**, 20, 4464-4471	11.5	34
22	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	2.9	29
21	Highly reversible and dendrite-free Zn electrodeposition enabled by a thin metallic interfacial layer in aqueous batteries. *Chemical Engineering Journal*, **2021**, 416, 128062	14.7	29
20	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	13	23
19	Stable Sodium Metal Anode Enabled by an Interface Protection Layer Rich in Organic Sulfide Salt. *Nano Letters*, **2021**, 21, 619-627	11.5	21
18	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	17.1	18
17	Dendrites-Free Zn Metal Anodes Enabled by an Artificial Protective Layer Filled with 2D Anionic Nanosheets.. *Small Methods*, **2021**, 5, e2100650	12.8	17
16	Stable lithium metal anodes enabled by inorganic/organic double-layered alloy and polymer coating. *Journal of Materials Chemistry A*, **2019**, 7, 25369-25376	13	16
15	Constructing nitrided interfaces for stabilizing Li metal electrodes in liquid electrolytes. *Chemical Science*, **2021**, 12, 8945-8966	9.4	14
14	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	19.4	13
13	A crosslinking method of UHMWPE irradiated by electron beam using TMPTMA as radiosensitizer. *Journal of Applied Polymer Science*, **2013**, 127, 111-119	2.9	12
12	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. *Angewandte Chemie*, **2020**, 132, 6658-6662	3.6	11
11	Computable Bulk and Interfacial Electronic Structure Features as Proxies for Dielectric Breakdown of Polymers. *ACS Applied Materials & Interfaces*, **2020**, 12, 37182-37187	9.5	11
10	Bi Nanoparticles Embedded in 2D Carbon Nanosheets as an Interfacial Layer for Advanced Sodium Metal Anodes. *Small*, **2021**, 17, e2007578	11	11
9	Highly Stable Lithium/Sodium Metal Batteries with High Utilization Enabled by a Holey Two-Dimensional N-Doped TiNbO Host. *Nano Letters*, **2021**,	11.5	8

List of Publications

8	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	7
7	Preparation of PbSe nanoparticles by electron beam irradiation method. *Bulletin of Materials Science*, **2008**, 31, 825-829	1.7	7
6	2D anionic nanosheet additive for stable Zn metal anodes in aqueous electrolyte. *Chemical Engineering Journal*, **2021**, 430, 133042	14.7	5
5	Recent Progress on Fe-Based Single/Dual-Atom Catalysts for Zn-Air Batteries.. *Small*, **2022**, e2106635	11	5
4	Stable sodium metal anodes with a high utilization enabled by an interfacial layer composed of yolk–shell nanoparticles. *Journal of Materials Chemistry A*, **2021**, 9, 13200-13208	13	4
3	Carbon-based current collector materials for sodium metal anodes. *New Carbon Materials*, **2022**, 37, 93-108	11	0
2	Towards stable sodium metal battery with high voltage output through dual electrolyte design. *Energy Storage Materials*, **2022**, 48, 466-474	19.4	0
1	Stable Sodium Metal Anodes Enabled by an In-situ Generated Mixed-Ion/Electron-Conducting Interface. *Chemical Engineering Journal*, **2022**, 136917	14.7	