

Ying Tao

List of Publications by Year in descending order

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43
papers

4,581
citations

159585

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254184

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docs citations

45
times ranked

5662
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of Metal Ions in MXene Synthesis, Processing and Applications: A Perspective. <i>Advanced Science</i> , 2022, 9, e2200296.	11.2	44
2	In-situ Polymerized Gel Polymer Electrolytes with High Room-Temperature Ionic Conductivity and Regulated Na ⁺ Solvation Structure for Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	31
3	Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. <i>National Science Review</i> , 2022, 9, .	9.5	55
4	A Review of Compact Carbon Design for Supercapacitors with High Volumetric Performance. <i>Small</i> , 2021, 17, e2007548.	10.0	47
5	A new approach to produce polystyrene monoliths by gelation and capillary shrinkage. <i>Science China Materials</i> , 2021, 64, 2272-2279.	6.3	2
6	Reassembly of MXene Hydrogels into Flexible Films towards Compact and Ultrafast Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2102874.	14.9	57
7	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2101006.	21.0	229
8	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 461-469.	10.3	30
9	Constructing a High-Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahigh-Rate Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 1907343.	14.9	83
10	Capillary shrinkage of graphene oxide hydrogels. <i>Science China Materials</i> , 2020, 63, 1870-1877.	6.3	41
11	Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. <i>ACS Energy Letters</i> , 2020, 5, 1986-1995.	17.4	72
12	A Corrosion-Resistant and Dendrite-Free Zinc Metal Anode in Aqueous Systems. <i>Small</i> , 2020, 16, e2001736.	10.0	354
13	Layered MXene Protected Lithium Metal Anode as an Efficient Polysulfide Blocker for Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 892-899.	4.7	22
14	Supercapacitors: Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors (<i>Adv. Sci.</i> 14/2019). <i>Advanced Science</i> , 2019, 6, 1970086.	11.2	10
15	Fast Gelation of Ti ₃ C ₂ T _x MXene Initiated by Metal Ions. <i>Advanced Materials</i> , 2019, 31, e1902432.	21.0	389
16	Simple synthesis of TiNb ₆ O ₁₇ /C composite toward high-rate lithium storage. <i>Journal of Materials Science</i> , 2019, 54, 14825-14833.	3.7	8
17	Capillary Encapsulation of Metallic Potassium in Aligned Carbon Nanotubes for Use as Stable Potassium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901427.	19.5	118
18	3D Macroscopic Architectures from Self-Assembled MXene Hydrogels. <i>Advanced Functional Materials</i> , 2019, 29, 1903960.	14.9	360

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19	Quantifying the Volumetric Performance Metrics of Supercapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900079.	19.5	88
20	Building Carbon-Based Versatile Scaffolds on the Electrode Surface to Boost Capacitive Performance for Fiber Pseudocapacitors. <i>Small</i> , 2019, 15, e1900721.	10.0	26
21	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019, 29, 1900311.	14.9	20
22	Deactivating Defects in Graphenes with Al ₂ O ₃ Nanoclusters to Produce Long-Life and High-Rate Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803078.	19.5	65
23	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1803186.	19.5	147
24	Enhanced Roles of Carbon Architectures in High-Performance Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 5.	27.0	56
25	Catalyzing polysulfide conversion by g-C ₃ N ₄ in a graphene network for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2018, 11, 3480-3489.	10.4	97
26	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018, 9, 402.	12.8	227
27	Engineering Graphenes from the Nano- to the Macroscale for Electrochemical Energy Storage. <i>Electrochemical Energy Reviews</i> , 2018, 1, 139-168.	25.5	55
28	Dense Graphene Monolith for High Volumetric Energy Density Li-S Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703438.	19.5	97
29	Advanced Materials for Capturing Particulate Matter: Progress and Perspectives. <i>Small Methods</i> , 2018, 2, 1800012.	8.6	82
30	Energy Storage: Disassembly-Reassembly Approach to RuO ₂ /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor (Small 30/2017). <i>Small</i> , 2017, 13, .	10.0	0
31	Disassembly-Reassembly Approach to RuO ₂ /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor. <i>Small</i> , 2017, 13, 1701026.	10.0	113
32	Improved performance of Li-Se battery based on a novel dual functional CNTs@graphene/CNTs cathode construction. <i>Rare Metals</i> , 2017, 36, 425-433.	7.1	15
33	Porous graphene oxide-based carbon artefact with high capacity for methylene blue adsorption. <i>Adsorption</i> , 2016, 22, 1043-1050.	3.0	15
34	Evolution of the effect of sulfur confinement in graphene-based porous carbons for use in Li-S batteries. <i>Nanoscale</i> , 2016, 8, 4447-4451.	5.6	69
35	Supercapacitors: A Metal-Free Supercapacitor Electrode Material with a Record High Volumetric Capacitance over 800 F cm ³ (Adv. Mater. 48/2015). <i>Advanced Materials</i> , 2015, 27, 7898-7898.	21.0	9
36	A Metal-Free Supercapacitor Electrode Material with a Record High Volumetric Capacitance over 800 F cm ³ . <i>Advanced Materials</i> , 2015, 27, 8082-8087.	21.0	211

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37	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. Energy and Environmental Science, 2015, 8, 1390-1403.	30.8	364
38	3D Hollow Sn@Carbon-Graphene Hybrid Material as Promising Anode for Lithium-Ion Batteries. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	5
39	Reduction of Graphene Oxide by Hydrogen Sulfide: A Promising Strategy for Pollutant Control and as an Electrode for Li-ion Batteries. Advanced Energy Materials, 2014, 4, 1301565.	19.5	149
40	Unusual High Oxygen Reduction Performance in All-Carbon Electrocatalysts. Scientific Reports, 2014, 4, 6289.	3.3	67
41	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975.	3.3	541
42	One-pot self-assembly of three-dimensional graphene macroassemblies with porous core and layered shell. Journal of Materials Chemistry, 2011, 21, 12352.	6.7	64
43	Conductive graphene-based macroscopic membrane self-assembled at a liquid-air interface. Journal of Materials Chemistry, 2011, 21, 3359.	6.7	46