

Yang Zhao

List of Publications by Citations

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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.

79
papers

10,854
citations

38
h-index

81
g-index

81
ext. papers

12,303
ext. citations

14.1
avg, IF

6.44
L-index

#	Paper	IF	Citations
79	Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15-8	16.4	1623
78	An electrochemical avenue to green-luminescent graphene quantum dots as potential electron-acceptors for photovoltaics. <i>Advanced Materials</i> , 2011 , 23, 776-80	24	1330
77	All-graphene core-sheath microfibers for all-solid-state, stretchable fibriform supercapacitors and wearable electronic textiles. <i>Advanced Materials</i> , 2013 , 25, 2326-31	24	912
76	Atomically Thin Mesoporous Nanomesh of Graphitic C ₃ N ₄ for High-Efficiency Photocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2016 , 10, 2745-51	16.7	701
75	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. <i>Advanced Materials</i> , 2013 , 25, 591-5	24	676
74	A versatile, ultralight, nitrogen-doped graphene framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11371-5	16.4	663
73	Vertically Aligned Graphene Sheets Membrane for Highly Efficient Solar Thermal Generation of Clean Water. <i>ACS Nano</i> , 2017 , 11, 5087-5093	16.7	632
72	Graphitic carbon nitride nanoribbons: graphene-assisted formation and synergic function for highly efficient hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13934-9	16.4	394
71	A Graphitic-C ₃ N ₄ "Seaweed" Architecture for Enhanced Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11433-7	16.4	365
70	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. <i>Angewandte Chemie</i> , 2012 , 124, 11533-11537	16.4	262
69	Graphene fibers with predetermined deformation as moisture-triggered actuators and robots. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10482-6	16.4	238
68	Functional graphene nanomesh foam. <i>Energy and Environmental Science</i> , 2014 , 7, 1913	35.4	192
67	A capacity recoverable zinc-ion micro-supercapacitor. <i>Energy and Environmental Science</i> , 2018 , 11, 3367-3374	33.74	185
66	Molybdenum carbide nanocrystal embedded N-doped carbon nanotubes as electrocatalysts for hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5783-5788	13	175
65	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12355	13	172
64	Spontaneous reduction and assembly of graphene oxide into three-dimensional graphene network on arbitrary conductive substrates. <i>Scientific Reports</i> , 2013 , 3, 2065	4.9	140
63	Graphene Platforms for Smart Energy Generation and Storage. <i>Joule</i> , 2018 , 2, 245-268	27.8	124

62	Large-scale spinning assembly of neat, morphology-defined, graphene-based hollow fibers. <i>ACS Nano</i> , 2013 , 7, 2406-12	16.7	119
61	Mesh-on-Mesh Graphitic-C ₃ N ₄ @Graphene for Highly Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1606352	15.6	115
60	Hierarchical nanosheet-based CoMoO ₄ @NiMoO ₄ nanotubes for applications in asymmetric supercapacitors and the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22750-22758	13	109
59	Colloidal Synthesis and Optical Properties of All-Inorganic Low-Dimensional Cesium Copper Halide Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16087-16091	16.4	104
58	Graphene microtubings: controlled fabrication and site-specific functionalization. <i>Nano Letters</i> , 2012 , 12, 5879-84	11.5	104
57	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide-Polypyrrole Composite Films for Versatile Actuators. <i>ACS Nano</i> , 2016 , 10, 4735-41	16.7	101
56	Graphene Oxide Nanoribbon Assembly toward Moisture-Powered Information Storage. <i>Advanced Materials</i> , 2017 , 29, 1604972	24	94
55	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
54	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. <i>Nanoscale</i> , 2012 , 4, 7563-8	7.7	79
53	Solution-Processed Ultraelastic and Strong Air-Bubbled Graphene Foams. <i>Small</i> , 2016 , 12, 3229-34	11	71
52	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. <i>Advanced Materials</i> , 2016 , 28, 3305-12	24	67
51	Integrated graphene systems by laser irradiation for advanced devices. <i>Nano Today</i> , 2017 , 12, 14-30	17.9	63
50	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2018 , 28, 1705967	15.6	58
49	Cellulose Fiber-Based Hierarchical Porous Bismuth Telluride for High-Performance Flexible and Tailorable Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1743-1751	9.5	56
48	Versatile Graphene Oxide Putty-Like Material. <i>Advanced Materials</i> , 2016 , 28, 10287-10292	24	49
47	Direct spinning of fiber supercapacitor. <i>Nanoscale</i> , 2016 , 8, 12113-7	7.7	48
46	Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array. <i>Small</i> , 2018 , 14, e1801809	11	46
45	Stretchable supercapacitor at 0 °C. <i>Energy and Environmental Science</i> , 2021 , 14, 3075-3085	35.4	45

44	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7239-7248	9.5	43
43	Laser-Assisted Multiscale Fabrication of Configuration-Editable Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2019 , 13, 7463-7470	16.7	39
42	Flexible and integrated supercapacitor with tunable energy storage. <i>Nanoscale</i> , 2017 , 9, 12324-12329	7.7	39
41	Large-Scale Production of Flexible, High-Voltage Hydroelectric Films Based on Solid Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30927-30935	9.5	36
40	Wearable fiberform hygroelectric generator. <i>Nano Energy</i> , 2018 , 53, 698-705	17.1	35
39	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24608-24615	9.5	30
38	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. <i>Nature Communications</i> , 2021 , 12, 2647	17.4	30
37	Controllable localization of carbon nanotubes on the holey edge of graphene: an efficient oxygen reduction electrocatalyst for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18240-18247	13	27
36	Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1151-68	4.5	26
35	Versatile origami micro-supercapacitors array as a wind energy harvester. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19750-19756	13	25
34	A versatile, superelastic polystyrene/graphene capsule-like framework. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10118-10123	13	24
33	A 2D free-standing film-inspired electrocatalyst for highly efficient hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12027-12033	13	23
32	Metal/graphene oxide batteries. <i>Carbon</i> , 2017 , 125, 299-307	10.4	23
31	Graphene decorated with bimodal size of carbon polyhedrons for enhanced lithium storage. <i>Carbon</i> , 2016 , 106, 9-19	10.4	23
30	Compact Assembly and Programmable Integration of Supercapacitors. <i>Advanced Materials</i> , 2020 , 32, e1907005	24	21
29	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. <i>ACS Nano</i> , 2020 , 14, 14929-14938	16.7	21
28	Coupling interconnected MoO ₃ /WO ₃ nanosheets with a graphene framework as a highly efficient anode for lithium-ion batteries. <i>Nanoscale</i> , 2017 , 10, 396-402	7.7	21
27	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2021 ,	16.7	19

26	A directly swallowable and ingestible micro-supercapacitor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4055-4061	13	18
25	Highly crumpled nanocarbons as efficient metal-free electrocatalysts for zinc-air batteries. <i>Nanoscale</i> , 2018 , 10, 15706-15713	7.7	17
24	2D Graphene-Based Macroscopic Assemblies for Micro-Supercapacitors. <i>ChemSusChem</i> , 2020 , 13, 1255-1274	12.4	14
23	Laser fabrication of functional micro-supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 59, 642-665	12	14
22	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3V Output Voltage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101523	21.8	10
21	An efficient ultra-thin chain-structured copper cobalt oxide/sulfide composite catalyst for electrochemical hydrogen generation. <i>RSC Advances</i> , 2016 , 6, 43185-43190	3.7	10
20	Regulation of 2D Graphene Materials for Electrocatalysis. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2271-2284	11.5	8
19	Detection of epinephrine and metanephrine at a nitrogen doped three-dimensional porous graphene modified electrode. <i>Analytical Methods</i> , 2015 , 7, 10394-10402	3.2	7
18	A Cascade Battery: Coupling Two Sequential Electrochemical Reactions in a Single Battery. <i>Advanced Materials</i> , 2021 , 33, e2105480	24	7
17	A Self-healing Zinc Ion Battery under -20 °C. <i>Energy Storage Materials</i> , 2021 ,	19.4	6
16	The Emerging of Aqueous Zinc-Based Dual Electrolytic Batteries. <i>Small</i> , 2021 , 17, e2008043	11	6
15	Enabling fast-charging selenium-based aqueous batteries via conversion reaction with copper ions.. <i>Nature Communications</i> , 2022 , 13, 1863	17.4	6
14	Graphene Materials for Miniaturized Energy Harvest and Storage Devices. <i>Small Structures</i> , 2100124	8.7	5
13	Recent advances in highly integrated energy conversion and storage system. <i>SusMat</i> ,		5
12	Grain Boundary Design of Solid Electrolyte Actualizing Stable All-Solid-State Sodium Batteries. <i>Small</i> , 2021 , 17, e2103819	11	4
11	Recent progress in graphene-based wearable piezoresistive sensors: From 1D to 3D device geometries. <i>Nano Materials Science</i> , 2022 ,	10.2	3
10	In Situ Fabrication of Lead-Free Cs ₃ Cu ₂ I ₅ Nanostructures Embedded in Poly(Vinylidene Fluoride) Electrospun Fibers for Polarized Emission. <i>ACS Applied Nano Materials</i> , 2022 , 5, 508-516	5.6	3
9	A Flexible Aqueous Zinc-Iodine Micro-battery with Unprecedented Energy Density.. <i>Advanced Materials</i> , 2022 , e2109450	24	3

8	Research on Modeling and Realization of Processing Action for Cloud Manufacturing Mode. <i>Key Engineering Materials</i> , 2011 , 486, 111-114	0.4	2
7	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. <i>Journal of Power Sources</i> , 2021 , 497, 229881	8.9	2
6	A facile laser assisted paste-tear approach to large area, flexible and wearable in-plane micro-supercapacitors. <i>Journal of Power Sources</i> , 2022 , 532, 231346	8.9	1
5	A versatile, heat-resisting, electrocatalytic active graphene framework by in-situ formation of boron nitride quantum dots. <i>Carbon</i> , 2022 , 192, 123-132	10.4	1
4	Pure Aqueous Planar Microsupercapacitors with Ultrahigh Energy Density under Wide Temperature Ranges. <i>Advanced Functional Materials</i> , 2203270	15.6	1
3	Laser-Based Growth and Treatment of Graphene for Advanced Photo- and Electro-Related Device Applications. <i>Advanced Functional Materials</i> , 2203164	15.6	1
2	Binary active sites of nickel/carbon alloy bonded in nitrogen-doped carbon nanocage for robust durability and low polarization zinc-air batteries. <i>Journal of Power Sources</i> , 2022 , 538, 231563	8.9	0
1	Study on the Manufacturing Service Trading Platform Based on Processing Behavior. <i>Key Engineering Materials</i> , 2013 , 579-580, 113-121	0.4	