Yang Zhao

List of Publications by Year in Descending Order

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	Recent progress in graphene-based wearable piezoresistive sensors: From 1D to 3D device geometries. *Nano Materials Science*, **2022**,	10.2	3
78	In Situ Fabrication of Lead-Free Cs3Cu2I5 Nanostructures Embedded in Poly(Vinylidene Fluoride) Electrospun Fibers for Polarized Emission. *ACS Applied Nano Materials*, **2022**, 5, 508-516	5.6	3
77	A Flexible Aqueous Zinc-Iodine Micro-battery with Unprecedented Energy Density.. *Advanced Materials*, **2022**, e2109450	24	3
76	Enabling fast-charging selenium-based aqueous batteries via conversion reaction with copper ions.. *Nature Communications*, **2022**, 13, 1863	17.4	6
75	A facile laser assisted paste-tear approach to large area, flexible and wearable in-plane micro-supercapacitors. *Journal of Power Sources*, **2022**, 532, 231346	8.9	1
74	A versatile, heat-resisting, electrocatalytic active graphene framework by in-situ formation of boron nitride quantum dots. *Carbon*, **2022**, 192, 123-132	10.4	1
73	Binary active sites of nickel□ron alloy bonded in nitrogen-doped carbon nanocage for robust durability and low polarization zinc-air batteries. *Journal of Power Sources*, **2022**, 538, 231563	8.9	0
72	A Self-healing Zinc Ion Battery under -20 □C. *Energy Storage Materials*, **2021**,	19.4	6
71	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. *Nature Communications*, **2021**, 12, 2647	17.4	30
70	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. *Journal of Power Sources*, **2021**, 497, 229881	8.9	2
69	The Emerging of Aqueous Zinc-Based Dual Electrolytic Batteries. *Small*, **2021**, 17, e2008043	11	6
68	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. *ACS Nano*, **2021**,	16.7	19
67	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3□V Output Voltage. *Advanced Energy Materials*, **2021**, 11, 2101523	21.8	10
66	Laser fabrication of functional micro-supercapacitors. *Journal of Energy Chemistry*, **2021**, 59, 642-665	12	14
65	Stretchable supercapacitor at □0 □C. *Energy and Environmental Science*, **2021**, 14, 3075-3085	35.4	45
64	A Cascade Battery: Coupling Two Sequential Electrochemical Reactions in a Single Battery. *Advanced Materials*, **2021**, 33, e2105480	24	7
63	Grain Boundary Design of Solid Electrolyte Actualizing Stable All-Solid-State Sodium Batteries. *Small*, **2021**, 17, e2103819	11	4

62	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. *Advanced Materials*, **2020**, 32, e2000030	24	81
61	A directly swallowable and ingestible micro-supercapacitor. *Journal of Materials Chemistry A*, **2020**, 8, 4055-4061	13	18
60	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. *ACS Applied Materials & Interfaces*, **2020**, 12, 7239-7248	9.5	43
59	Regulation of 2D Graphene Materials for Electrocatalysis. *Chemistry - an Asian Journal*, **2020**, 15, 2271-2281	4.5	8
58	Compact Assembly and Programmable Integration of Supercapacitors. *Advanced Materials*, **2020**, 32, e1907005	24	21
57	2D Graphene-Based Macroscopic Assemblies for Micro-Supercapacitors. *ChemSusChem*, **2020**, 13, 1255-1274	8.4	14
56	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. *ACS Nano*, **2020**, 14, 14929-14938	16.7	21
55	Colloidal Synthesis and Optical Properties of All-Inorganic Low-Dimensional Cesium Copper Halide Nanocrystals. *Angewandte Chemie - International Edition*, **2019**, 58, 16087-16091	16.4	104
54	Laser-Assisted Multiscale Fabrication of Configuration-Editable Supercapacitors with High Energy Density. *ACS Nano*, **2019**, 13, 7463-7470	16.7	39
53	Large-Scale Production of Flexible, High-Voltage Hydroelectric Films Based on Solid Oxides. *ACS Applied Materials & Interfaces*, **2019**, 11, 30927-30935	9.5	36
52	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. *Advanced Functional Materials*, **2018**, 28, 1705967	15.6	58
51	Graphene Platforms for Smart Energy Generation and Storage. *Joule*, **2018**, 2, 245-268	27.8	124
50	Cellulose Fiber-Based Hierarchical Porous Bismuth Telluride for High-Performance Flexible and Tailorable Thermoelectrics. *ACS Applied Materials & Interfaces*, **2018**, 10, 1743-1751	9.5	56
49	Highly crumpled nanocarbons as efficient metal-free electrocatalysts for zinc-air batteries. *Nanoscale*, **2018**, 10, 15706-15713	7.7	17
48	Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array. *Small*, **2018**, 14, e1801809	11	46
47	A capacity recoverable zinc-ion micro-supercapacitor. *Energy and Environmental Science*, **2018**, 11, 3367-3374	33.4	185
46	Wearable fiberform hygroelectric generator. *Nano Energy*, **2018**, 53, 698-705	17.1	35
45	Versatile origami micro-supercapacitors array as a wind energy harvester. *Journal of Materials Chemistry A*, **2018**, 6, 19750-19756	13	25

44	Integrated graphene systems by laser irradiation for advanced devices. *Nano Today*, **2017**, 12, 14-30	17.9	63
43	Mesh-on-Mesh Graphitic-C3N4@Graphene for Highly Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1606352	15.6	115
42	Vertically Aligned Graphene Sheets Membrane for Highly Efficient Solar Thermal Generation of Clean Water. *ACS Nano*, **2017**, 11, 5087-5093	16.7	632
41	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2017**, 9, 24608-24615	9.5	30
40	A 2D free-standing film-inspired electrocatalyst for highly efficient hydrogen production. *Journal of Materials Chemistry A*, **2017**, 5, 12027-12033	13	23
39	Metal/graphene oxide batteries. *Carbon*, **2017**, 125, 299-307	10.4	23
38	Flexible and integrated supercapacitor with tunable energy storage. *Nanoscale*, **2017**, 9, 12324-12329	7.7	39
37	Graphene Oxide Nanoribbon Assembly toward Moisture-Powered Information Storage. *Advanced Materials*, **2017**, 29, 1604972	24	94
36	Coupling interconnected MoO/WO nanosheets with a graphene framework as a highly efficient anode for lithium-ion batteries. *Nanoscale*, **2017**, 10, 396-402	7.7	21
35	A versatile, superelastic polystyrene/graphene capsule-like framework. *Journal of Materials Chemistry A*, **2016**, 4, 10118-10123	13	24
34	Solution-Processed Ultraelastic and Strong Air-Bubbled Graphene Foams. *Small*, **2016**, 12, 3229-34	11	71
33	Atomically Thin Mesoporous Nanomesh of Graphitic C□N□ for High-Efficiency Photocatalytic Hydrogen Evolution. *ACS Nano*, **2016**, 10, 2745-51	16.7	701
32	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide-Polypyrrole Composite Films for Versatile Actuators. *ACS Nano*, **2016**, 10, 4735-41	16.7	101
31	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. *Advanced Materials*, **2016**, 28, 3305-12	24	67
30	Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. *Chemistry - an Asian Journal*, **2016**, 11, 1151-68	4.5	26
29	Direct spinning of fiber supercapacitor. *Nanoscale*, **2016**, 8, 12113-7	7.7	48
28	An efficient ultra-thin chain-structured copper cobalt oxide/sulfide composite catalyst for electrochemical hydrogen generation. *RSC Advances*, **2016**, 6, 43185-43190	3.7	10
27	Graphene decorated with bimodal size of carbon polyhedrons for enhanced lithium storage. *Carbon* , **2016**, 106, 9-19	10.4	23

26	Controllable localization of carbon nanotubes on the holey edge of graphene: an efficient oxygen reduction electrocatalyst for Zn–air batteries. *Journal of Materials Chemistry A*, **2016**, 4, 18240-18247	13	27
25	Versatile Graphene Oxide Putty-Like Material. *Advanced Materials*, **2016**, 28, 10287-10292	24	49
24	Hierarchical nanosheet-based CoMoO4@NiMoO4 nanotubes for applications in asymmetric supercapacitors and the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2015**, 3, 22750-22758	13	109
23	Detection of epinephrine and metanephrine at a nitrogen doped three-dimensional porous graphene modified electrode. *Analytical Methods*, **2015**, 7, 10394-10402	3.2	7
22	A Graphitic-C3N4 "Seaweed" Architecture for Enhanced Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 11433-7	16.4	365
21	Molybdenum carbide nanocrystal embedded N-doped carbon nanotubes as electrocatalysts for hydrogen generation. *Journal of Materials Chemistry A*, **2015**, 3, 5783-5788	13	175
20	Graphitic carbon nitride nanoribbons: graphene-assisted formation and synergic function for highly efficient hydrogen evolution. *Angewandte Chemie - International Edition*, **2014**, 53, 13934-9	16.4	394
19	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 12355	13	172
18	Functional graphene nanomesh foam. *Energy and Environmental Science*, **2014**, 7, 1913	35.4	192
17	Graphene fibers with predetermined deformation as moisture-triggered actuators and robots. *Angewandte Chemie - International Edition*, **2013**, 52, 10482-6	16.4	238
16	All-graphene core-sheath microfibers for all-solid-state, stretchable fibriform supercapacitors and wearable electronic textiles. *Advanced Materials*, **2013**, 25, 2326-31	24	912
15	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. *Advanced Materials*, **2013**, 25, 591-5	24	676
14	Large-scale spinning assembly of neat, morphology-defined, graphene-based hollow fibers. *ACS Nano*, **2013**, 7, 2406-12	16.7	119
13	Spontaneous reduction and assembly of graphene oxide into three-dimensional graphene network on arbitrary conductive substrates. *Scientific Reports*, **2013**, 3, 2065	4.9	140
12	Study on the Manufacturing Service Trading Platform Based on Processing Behavior. *Key Engineering Materials*, **2013**, 579-580, 113-121	0.4	
11	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. *Angewandte Chemie*, **2012**, 124, 11533-11537	3.6	262
10	A versatile, ultralight, nitrogen-doped graphene framework. *Angewandte Chemie - International Edition*, **2012**, 51, 11371-5	16.4	663
9	Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. *Journal of the American Chemical Society*, **2012**, 134, 15-8	16.4	1623

8	Graphene microtubings: controlled fabrication and site-specific functionalization. *Nano Letters*, **2012**, 12, 5879-84	11.5	104
7	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. *Nanoscale*, **2012**, 4, 7563-8	7.7	79
6	An electrochemical avenue to green-luminescent graphene quantum dots as potential electron-acceptors for photovoltaics. *Advanced Materials*, **2011**, 23, 776-80	24	1330
5	Research on Modeling and Realization of Processing Action for Cloud Manufacturing Mode. *Key Engineering Materials*, **2011**, 486, 111-114	0.4	2
4	Graphene Materials for Miniaturized Energy Harvest and Storage Devices. *Small Structures*,2100124	8.7	5
3	Recent advances in highly integrated energy conversion and storage system. *SusMat*,		5
2	Pure Aqueous Planar Microsupercapacitors with Ultrahigh Energy Density under Wide Temperature Ranges. *Advanced Functional Materials*,2203270	15.6	1
1	Laser-Based Growth and Treatment of Graphene for Advanced Photo- and Electro-Related Device Applications. *Advanced Functional Materials*,2203164	15.6	1