

Yanwu Zhu

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

87
papers

20,517
citations

36
h-index

93
g-index

93
ext. papers

22,566
ext. citations

11.7
avg, IF

6.58
L-index

#	Paper	IF	Citations
87	Microfluidic Oxidation of Graphite in Two Minutes with Capability of Real-Time Monitoring.. <i>Advanced Materials</i> , 2022 , e2107083	24	0
86	Strong and tough graphene papers constructed with pyrene-containing small molecules via π -H-bonding synergistic interactions. <i>Science China Materials</i> , 2021 , 64, 1206-1218	7.1	1
85	Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13317-13322	16.4	5
84	Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance. <i>Angewandte Chemie</i> , 2021 , 133, 13429-13434	3.6	2
83	Titelbild: Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance (Angew. Chem. 24/2021). <i>Angewandte Chemie</i> , 2021 , 133, 13800-13800	3.6	
82	Phase-Changing in Graphite Assisted by Interface Charge Injection. <i>Nano Letters</i> , 2021 , 21, 5648-5654	11.5	1
81	Graphene standardization: The lesson from the East. <i>Materials Today</i> , 2021 , 47, 9-15	21.8	6
80	Advances in in-situ characterizations of electrode materials for better supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 54, 242-253	12	17
79	Cobalt and nitrogen atoms co-doped porous carbon for advanced electrical double-layer capacitors. <i>Chinese Chemical Letters</i> , 2021 , 32, 830-833	8.1	3
78	Carbon-coated Fe ₂ O ₃ hollow sea urchin nanostructures as high-performance anode materials for lithium-ion battery. <i>Science China Materials</i> , 2021 , 64, 307-317	7.1	8
77	Stronger Interlayer Interactions Contribute to Faster Hot Carrier Cooling of Bilayer Graphene under Pressure. <i>Physical Review Letters</i> , 2021 , 126, 027402	7.4	7
76	Anisotropic conductive networks for multidimensional sensing. <i>Materials Horizons</i> , 2021 , 8, 2615-2653	14.4	7
75	Highly Efficient Preparation of Graphite Oxide without Water Enhanced Oxidation. <i>Chemistry of Materials</i> , 2021 , 33, 1731-1739	9.6	7
74	Emerging flat bands in large-angle twisted bi-layer graphene under pressure. <i>Nanoscale</i> , 2021 , 13, 9264-9269	9.6	0
73	Fluorinated Carbonate Electrolyte with Superior Oxidative Stability Enables Long-Term Cycle Stability of Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ Cathodes in Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002737	21.8	10
72	Raman spectroscopy study of sp ² to sp ³ transition in bilayer graphene under high pressures. <i>Applied Physics Letters</i> , 2020 , 116, 133101	3.4	16
71	Designing ionic channels in novel carbons for electrochemical energy storage. <i>National Science Review</i> , 2020 , 7, 191-201	10.8	16

70	High Capacity and Energy Density of Zn-Ni-Co-P Nanowire Arrays as an Advanced Electrode for Aqueous Asymmetric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9158-9168	9.5	57
69	Increasing S dopant and specific surface area of N/S-codoped porous carbon by in-situ polymerization of PEDOT into biomass precursor for high performance supercapacitor. <i>Applied Surface Science</i> , 2020 , 502, 144191	6.7	25
68	Rolling press of lithium with carbon for high-performance anodes. <i>Energy Storage Materials</i> , 2020 , 24, 689-693	19.4	10
67	Towards industrialization of graphene oxide. <i>Science China Materials</i> , 2020 , 63, 1861-1869	7.1	4
66	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019 , 4, 2585-2592	20.1	69
65	Charge Storage Mechanisms of Single-Layer Graphene in Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16559-16563	16.4	36
64	Upraising the O 2p Orbital by Integrating Ni with MoO ₂ for Accelerating Hydrogen Evolution Kinetics. <i>ACS Catalysis</i> , 2019 , 9, 2275-2285	13.1	103
63	Identification of graphene oxide and its structural features in solvents by optical microscopy.. <i>RSC Advances</i> , 2019 , 9, 18559-18564	3.7	0
62	In Operando Probing of Lithium-Ion Storage on Single-Layer Graphene. <i>Advanced Materials</i> , 2019 , 31, e1808091	24	36
61	Solid-state yet flexible supercapacitors made by inkjet-printing hybrid ink of carbon quantum dots/graphene oxide platelets on paper. <i>Science China Materials</i> , 2019 , 62, 545-554	7.1	15
60	A Sponge-Driven Elastic Interface for Lithium Metal Anodes. <i>Research</i> , 2019 , 2019, 9129457	7.8	3
59	Ultrathin yet transferrable Pt- or PtRu-decorated graphene films as efficient electrocatalyst for methanol oxidation reaction. <i>Science China Materials</i> , 2019 , 62, 273-282	7.1	10
58	Incorporating Flexibility into Stiffness: Self-Grown Carbon Nanotubes in Melamine Sponges Enable A Lithium-Metal-Anode Capacity of 15 mA h cm Cyclable at 15 mA cm. <i>Advanced Materials</i> , 2019 , 31, e1805654	24	41
57	Hierarchical porous carbon with high nitrogen content derived from plant waste (pomelo peel) for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7707-7717	2.1	27
56	Enhanced physical properties of AlO-rGO hybrids prepared by solvothermal and hot-press processing.. <i>RSC Advances</i> , 2018 , 8, 8329-8337	3.7	7
55	Mass production and industrial applications of graphene materials. <i>National Science Review</i> , 2018 , 5, 90-101	10.8	158
54	Oxygen-Rich Carbon Quantum Dots as Catalysts for Selective Oxidation of Amines and Alcohols. <i>ChemCatChem</i> , 2018 , 10, 259-265	5.2	20
53	3D Graphene Films Enable Simultaneously High Sensitivity and Large Stretchability for Strain Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803221	15.6	60

52	Tailoring the Structure of Carbon Nanomaterials toward High-End Energy Applications. <i>Advanced Materials</i> , 2018 , 30, e1802104	24	65
51	Hierarchical porous carbon obtained from frozen tofu for efficient energy storage. <i>New Journal of Chemistry</i> , 2018 , 42, 12421-12428	3.6	10
50	Robust Expandable Carbon Nanotube Scaffold for Ultrahigh-Capacity Lithium-Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, e1800884	24	132
49	Amorphous Ni(OH) ₂ encounter with crystalline CuS in hollow spheres: A mesoporous nano-shelled heterostructure for hydrogen evolution electrocatalysis. <i>Nano Energy</i> , 2018 , 44, 7-14	17.1	136
48	Design of atomically precise Au ₂ Pd ₆ nanoclusters for boosting electrocatalytic hydrogen evolution on MoS ₂ . <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2948-2954	6.8	25
47	Carbon Nanomaterials: Tailoring the Structure of Carbon Nanomaterials toward High-End Energy Applications (Adv. Mater. 48/2018). <i>Advanced Materials</i> , 2018 , 30, 1870371	24	4
46	Heteroatoms (O, N)-doped porous carbon derived from bamboo shoots shells for high performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 20991-21001	2.1	16
45	Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17874-17881	13	23
44	Direct Laser Writing of Graphene Made from Chemical Vapor Deposition for Flexible, Integratable Micro-Supercapacitors with Ultrahigh Power Output. <i>Advanced Materials</i> , 2018 , 30, e1801384	24	137
43	Bowl-Like and Apple-Like PdCu Hollow Microparticles with Mesoporous Nanoshells: Synthesis, Characterization, and Electrocatalytic Performance. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3323-3330	6.1	5
42	Diameter-Sensitive Breakdown of Single-Walled Carbon Nanotubes upon KOH Activation. <i>ChemPhysChem</i> , 2017 , 18, 1929-1936	3.2	5
41	Incorporating Pyrrolic and Pyridinic Nitrogen into a Porous Carbon made from C Molecules to Obtain Superior Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1603414	24	132
40	High Areal Capacity and Lithium Utilization in Anodes Made of Covalently Connected Graphite Microtubes. <i>Advanced Materials</i> , 2017 , 29, 1700783	24	123
39	Planar lighting from optimized graphite papers made of graphite oxide. <i>Applied Physics Letters</i> , 2017 , 110, 211903	3.4	1
38	Highly densified carbon electrode materials towards practical supercapacitor devices. <i>Science China Materials</i> , 2017 , 60, 25-38	7.1	42
37	Activated carbon from the waste water purifier for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3169-3177	2.6	7
36	Supercapacitors: A Hierarchical Carbon Derived from Sponge-Templated Activation of Graphene Oxide for High-Performance Supercapacitor Electrodes (Adv. Mater. 26/2016). <i>Advanced Materials</i> , 2016 , 28, 5331	24	7
35	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. <i>Scientific Reports</i> , 2016 , 6, 19028	4.9	77

34	Carbon Nanostructures: Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of LiS Batteries (Adv. Mater. 41/2016). <i>Advanced Materials</i> , 2016 , 28, 9016-9016	24	5
33	Length Dependence of Ultrafast Optical Nonlinearities in Vertically Aligned Multiwalled Carbon Nanotube Films. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17733-17738	3.8	8
32	Porous three-dimensional activated microwave exfoliated graphite oxide as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 55176-55181	3.7	1
31	Creating Pores on Graphene Platelets by Low-Temperature KOH Activation for Enhanced Electrochemical Performance. <i>Small</i> , 2016 , 12, 2376-84	11	76
30	Antibacterial Property of Graphene Quantum Dots (Both Source Material and Bacterial Shape Matter). <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20-5	9.5	94
29	A Hierarchical Carbon Derived from Sponge-Templated Activation of Graphene Oxide for High-Performance Supercapacitor Electrodes. <i>Advanced Materials</i> , 2016 , 28, 5222-8	24	323
28	Fast pseudocapacitive reactions of three-dimensional manganese dioxide structures synthesized via self-limited redox deposition on microwave-expanded graphite oxide. <i>RSC Advances</i> , 2016 , 6, 8330-8335	3.7	2
27	Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Li-S Batteries. <i>Advanced Materials</i> , 2016 , 28, 9094-9102	24	154
26	Construction of a 3D-rGO network-wrapping architecture in a YbyCo4Sb12/rGO composite for enhancing the thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8643-8649	13	53
25	Carbon-Based Supercapacitors Produced by the Activation of Graphene 2015 , 211-225		16
24	Microwave-assisted synthesis of hematite/activated graphene composites with superior performance for photocatalytic reduction of Cr(VI). <i>RSC Advances</i> , 2015 , 5, 81438-81444	3.7	15
23	An Electrochemical in Situ Infrared Spectroscopic Study of Graphene/Electrolyte Interface under Attenuated Total Reflection Configuration. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22452-22459	3.8	11
22	A Flexible Porous Carbon Nanofibers-Selenium Cathode with Superior Electrochemical Performance for Both Li-Se and Na-Se Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401377	21.8	191
21	Membranes of MnO Beading in Carbon Nanofibers as Flexible Anodes for High-Performance Lithium-Ion Batteries. <i>Scientific Reports</i> , 2015 , 5, 14146	4.9	32
20	Rupturing C60 Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. <i>Small</i> , 2015 , 11, 5296-304	11	33
19	Hierarchically micro/mesoporous activated graphene with a large surface area for high sulfur loading in LiS batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4799-4802	13	114
18	Manipulating size of Li3V2(PO4)3 with reduced graphene oxide: towards high-performance composite cathode for lithium ion batteries. <i>Scientific Reports</i> , 2014 , 4, 5768	4.9	21
17	Capacitance of carbon-based electrical double-layer capacitors. <i>Nature Communications</i> , 2014 , 5, 3317	17.4	463

16	LiFePO ₄ /reduced graphene oxide hybrid cathode for lithium ion battery with outstanding rate performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7812-7818	13	52
15	Enhanced light-matter interaction of graphene-gold nanoparticle hybrid films for high-performance SERS detection. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4683-4691	7.1	70
14	High Q-factor plasmonic resonators in continuous graphene excited by insulator-covered silicon gratings. <i>RSC Advances</i> , 2014 , 4, 26535	3.7	27
13	Interfacial capacitance of single layer graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 4685	35.4	165
12	Carbon-based supercapacitors produced by activation of graphene. <i>Science</i> , 2011 , 332, 1537-41	33.3	4940
11	Using coin cells for ultracapacitor electrode material testing. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 681-686	2.6	13
10	Controlling the electrical transport properties of graphene by in situ metal deposition. <i>Applied Physics Letters</i> , 2010 , 97, 053107	3.4	62
9	Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. <i>ACS Nano</i> , 2010 , 4, 1227-33	16.7	615
8	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1259-1263	6.4	388
7	Graphene and graphene oxide: synthesis, properties, and applications. <i>Advanced Materials</i> , 2010 , 22, 3906-24	24	7620
6	Synthesis of isotopically-labeled graphite films by cold-wall chemical vapor deposition and electronic properties of graphene obtained from such films. <i>Nano Research</i> , 2009 , 2, 851-856	10	46
5	Large area few-layer graphene/graphite films as transparent thin conducting electrodes. <i>Applied Physics Letters</i> , 2009 , 95, 123115	3.4	305
4	Transfer of large-area graphene films for high-performance transparent conductive electrodes. <i>Nano Letters</i> , 2009 , 9, 4359-63	11.5	2532
3	Transparent self-assembled films of reduced graphene oxide platelets. <i>Applied Physics Letters</i> , 2009 , 95, 103104	3.4	155
2	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18480-18486	3.8	173
1	Effect of Heteroatom and Charge Reconstruction in Atomically Precise Metal Nanoclusters on Electrochemical Synthesis of Ammonia. <i>Advanced Functional Materials</i> , 2202820	15.6	4