Yanwu Zhu

List of Publications by Year
in descending order

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		81743	48187
88	24,448	39	88
papers	citations	h-index	g-index

93	93	93	32523
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hierarchical palladium catalyst for highly active and stable water oxidation in acidic media. National Science Review, 2023, 10, .	4.6	12
2	Microfluidic Oxidation of Graphite in Two Minutes with Capability of Realâ€Time Monitoring. Advanced Materials, 2022, 34, e2107083.	11.1	13
3	Effect of Heteroatom and Charge Reconstruction in Atomically Precise Metal Nanoclusters on Electrochemical Synthesis of Ammonia. Advanced Functional Materials, 2022, 32, .	7.8	29
4	Heterogeneous stacking carbon films for optimized supercapacitor performance. Energy Storage Materials, 2022, 50, 365-372.	9.5	6
5	Advances in in-situ characterizations of electrode materials for better supercapacitors. Journal of Energy Chemistry, 2021, 54, 242-253.	7.1	37
6	Cobalt and nitrogen atoms co-doped porous carbon for advanced electrical double-layer capacitors. Chinese Chemical Letters, 2021, 32, 830-833.	4.8	7
7	Carbon-coated Fe2O3 hollow sea urchin nanostructures as high-performance anode materials for lithium-ion battery. Science China Materials, 2021, 64, 307-317.	3.5	25
8	Stronger Interlayer Interactions Contribute to Faster Hot Carrier Cooling of Bilayer Graphene under Pressure. Physical Review Letters, 2021, 126, 027402.	2.9	19
9	Anisotropic conductive networks for multidimensional sensing. Materials Horizons, 2021, 8, 2615-2653.	6.4	30
10	Highly Efficient Preparation of Graphite Oxide without Water Enhanced Oxidation. Chemistry of Materials, 2021, 33, 1731-1739.	3.2	26
11	Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance. Angewandte Chemie - International Edition, 2021, 60, 13317-13322.	7.2	31
12	Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance. Angewandte Chemie, 2021, 133, 13429-13434.	1.6	5
13	RÃ¼cktitelbild: Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance (Angew. Chem. 24/2021). Angewandte Chemie, 2021, 133, 13800-13800.	1.6	1
14	Phase-Changing in Graphite Assisted by Interface Charge Injection. Nano Letters, 2021, 21, 5648-5654.	4.5	12
15	Graphene standardization: The lesson from the East. Materials Today, 2021, 47, 9-15.	8.3	12
16	Emerging flat bands in large-angle twisted bi-layer graphene under pressure. Nanoscale, 2021, 13, 9264-9269.	2.8	6
17	Fluorinated Carbonate Electrolyte with Superior Oxidative Stability Enables Longâ€Term Cycle Stability of Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ Cathodes in Sodiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2002737.	10.2	37
18	Strong and tough graphene papers constructed with pyrene-containing small molecules via Ï€-Ï€/H-bonding synergistic interactions. Science China Materials, 2021, 64, 1206-1218.	3.5	5

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19	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. Applied Surface Science, 2020, 502, 144191.	3.1	38
20	Rolling press of lithium with carbon for high-performance anodes. Energy Storage Materials, 2020, 24, 689-693.	9.5	17
21	Towards industrialization of graphene oxide. Science China Materials, 2020, 63, 1861-1869.	3.5	16
22	Raman spectroscopy study of sp2 to sp3 transition in bilayer graphene under high pressures. Applied Physics Letters, 2020, 116, .	1.5	29
23	Designing ionic channels in novel carbons for electrochemical energy storage. National Science Review, 2020, 7, 191-201.	4.6	42
24	High Capacity and Energy Density of Znâ€“Niâ€“Coâ€“P Nanowire Arrays as an Advanced Electrode for Aqueous Asymmetric Supercapacitor. ACS Applied Materials & Interfaces, 2020, 12, 9158-9168.	4.0	115
25	Incorporating Flexibility into Stiffness: Selfâ€Grown Carbon Nanotubes in Melamine Sponges Enable A Lithiumâ€Metalâ€Anode Capacity of 15 mA h cm^{â^'2} Cyclable at 15 mA cm^{â^'2}. Advanced Materials, 2019, 31, e1805654.	11.1	95
26	Solid-state yet flexible supercapacitors made by inkjet-printing hybrid ink of carbon quantum dots/graphene oxide platelets on paper. Science China Materials, 2019, 62, 545-554.	3.5	21
27	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. ACS Energy Letters, 2019, 4, 2585-2592.	8.8	137
28	Charge Storage Mechanisms of Single-Layer Graphene in Ionic Liquid. Journal of the American Chemical Society, 2019, 141, 16559-16563.	6.6	67
29	Upraising the O 2p Orbital by Integrating Ni with MoO₂ for Accelerating Hydrogen Evolution Kinetics. ACS Catalysis, 2019, 9, 2275-2285.	5.5	165
30	Identification of graphene oxide and its structural features in solvents by optical microscopy. RSC Advances, 2019, 9, 18559-18564.	1.7	1
31	In Operando Probing of Lithiumâ€Ion Storage on Singleâ€Layer Graphene. Advanced Materials, 2019, 31, e1808091.	11.1	56
32	Ultrathin yet transferrable Pt- or PtRu-decorated graphene films as efficient electrocatalyst for methanol oxidation reaction. Science China Materials, 2019, 62, 273-282.	3.5	15
33	A Sponge-Driven Elastic Interface for Lithium Metal Anodes. Research, 2019, 2019, 9129457.	2.8	3
34	Hierarchical porous carbon with high nitrogen content derived from plant waste (pomelo peel) for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 7707-7717.	1.1	42
35	Enhanced physical properties of Î³-Al₂O₃â€“rGO hybrids prepared by solvothermal and hot-press processing. RSC Advances, 2018, 8, 8329-8337.	1.7	13
36	Mass production and industrial applications of graphene materials. National Science Review, 2018, 5, 90-101.	4.6	222

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37	Oxygenâ€Rich Carbon Quantum Dots as Catalysts for Selective Oxidation of Amines and Alcohols. ChemCatChem, 2018, 10, 259-265.	1.8	30
38	Amorphous Ni(OH)2 encounter with crystalline CuS in hollow spheres: A mesoporous nano-shelled heterostructure for hydrogen evolution electrocatalysis. Nano Energy, 2018, 44, 7-14.	8.2	201
39	Design of atomically precise Au₂Pd₆nanoclusters for boosting electrocatalytic hydrogen evolution on MoS₂. Inorganic Chemistry Frontiers, 2018, 5, 2948-2954.	3.0	37
40	Carbon Nanomaterials: Tailoring the Structure of Carbon Nanomaterials toward Highâ€End Energy Applications (Adv. Mater. 48/2018). Advanced Materials, 2018, 30, 1870371.	11.1	5
41	Heteroatoms (O, N)-doped porous carbon derived from bamboo shoots shells for high performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2018, 29, 20991-21001.	1.1	39
42	Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 17874-17881.	5.2	30
43	Direct Laser Writing of Graphene Made from Chemical Vapor Deposition for Flexible, Integratable Microâ€Supercapacitors with Ultrahigh Power Output. Advanced Materials, 2018, 30, e1801384.	11.1	178
44	Bowl-Like and Apple-Like PdCu Hollow Microparticles with Mesoporous Nanoshells: Synthesis, Characterization, and Electrocatalytic Performance. ACS Applied Energy Materials, 2018, 1, 3323-3330.	2.5	8
45	3D Graphene Films Enable Simultaneously High Sensitivity and Large Stretchability for Strain Sensors. Advanced Functional Materials, 2018, 28, 1803221.	7.8	89
46	Tailoring the Structure of Carbon Nanomaterials toward Highâ€End Energy Applications. Advanced Materials, 2018, 30, e1802104.	11.1	92
47	Hierarchical porous carbon obtained from frozen tofu for efficient energy storage. New Journal of Chemistry, 2018, 42, 12421-12428.	1.4	13
48	Robust Expandable Carbon Nanotube Scaffold for Ultrahighâ€Capacity Lithiumâ€Metal Anodes. Advanced Materials, 2018, 30, e1800884.	11.1	171
49	Diameterâ€Sensitive Breakdown of Singleâ€Walled Carbon Nanotubes upon KOH Activation. ChemPhysChem, 2017, 18, 1929-1936.	1.0	8
50	Incorporating Pyrrolic and Pyridinic Nitrogen into a Porous Carbon made from C₆₀ Molecules to Obtain Superior Energy Storage. Advanced Materials, 2017, 29, 1603414.	11.1	175
51	High Areal Capacity and Lithium Utilization in Anodes Made of Covalently Connected Graphite Microtubes. Advanced Materials, 2017, 29, 1700783.	11.1	148
52	Planar lighting from optimized graphite papers made of graphite oxide. Applied Physics Letters, 2017, 110, 211903.	1.5	1
53	Highly densified carbon electrode materials towards practical supercapacitor devices. Science China Materials, 2017, 60, 25-38.	3.5	57
54	Activated carbon from the waste water purifier for supercapacitor application. Journal of Solid State Electrochemistry, 2017, 21, 3169-3177.	1.2	16

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55	A Hierarchical Carbon Derived from Spongeâ€Templated Activation of Graphene Oxide for Highâ€Performance Supercapacitor Electrodes. Advanced Materials, 2016, 28, 5222-5228.	11.1	383
56	Fast pseudocapacitive reactions of three-dimensional manganese dioxide structures synthesized via self-limited redox deposition on microwave-expanded graphite oxide. RSC Advances, 2016, 6, 8330-8335.	1.7	2
57	Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Liâ€“S Batteries. Advanced Materials, 2016, 28, 9094-9102.	11.1	184
58	Supercapacitors: A Hierarchical Carbon Derived from Spongeâ€Templated Activation of Graphene Oxide for Highâ€Performance Supercapacitor Electrodes (Adv. Mater. 26/2016). Advanced Materials, 2016, 28, 5331-5331.	11.1	7
59	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. Scientific Reports, 2016, 6, 19028.	1.6	96
60	Carbon Nanostructures: Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Liâ€“S Batteries (Adv. Mater. 41/2016). Advanced Materials, 2016, 28, 9016-9016.	11.1	5
61	Length Dependence of Ultrafast Optical Nonlinearities in Vertically Aligned Multiwalled Carbon Nanotube Films. Journal of Physical Chemistry C, 2016, 120, 17733-17738.	1.5	11
62	Porous three-dimensional activated microwave exfoliated graphite oxide as an anode material for lithium ion batteries. RSC Advances, 2016, 6, 55176-55181.	1.7	1
63	Creating Pores on Graphene Platelets by Lowâ€Temperature KOH Activation for Enhanced Electrochemical Performance. Small, 2016, 12, 2376-2384.	5.2	95
64	Antibacterial Property of Graphene Quantum Dots (Both Source Material and Bacterial Shape Matter). ACS Applied Materials & Interfaces, 2016, 8, 20-25.	4.0	135
65	Membranes of MnO Beading in Carbon Nanofibers as Flexible Anodes for High-Performance Lithium-Ion Batteries. Scientific Reports, 2015, 5, 14146.	1.6	34
66	Rupturing C60Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. Small, 2015, 11, 5296-5304.	5.2	39
67	Hierarchically micro/mesoporous activated graphene with a large surface area for high sulfur loading in Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 4799-4802.	5.2	121
68	Construction of a 3D-rGO network-wrapping architecture in a Yb_yCo₄Sb₁₂/rGO composite for enhancing the thermoelectric performance. Journal of Materials Chemistry A, 2015, 3, 8643-8649.	5.2	71
69	Microwave-assisted synthesis of hematite/activated graphene composites with superior performance for photocatalytic reduction of Cr(<scp>vi</scp>). RSC Advances, 2015, 5, 81438-81444.	1.7	16
70	An Electrochemical in Situ Infrared Spectroscopic Study of Graphene/Electrolyte Interface under Attenuated Total Reflection Configuration. Journal of Physical Chemistry C, 2015, 119, 22452-22459.	1.5	11
71	A Flexible Porous Carbon Nanofibersâ€Selenium Cathode with Superior Electrochemical Performance for Both Liâ€Se and Naâ€Se Batteries. Advanced Energy Materials, 2015, 5, 1401377.	10.2	230
72	Manipulating Size of Li3V2(PO4)3 with Reduced Graphene Oxide: towards High-Performance Composite Cathode for Lithium Ion Batteries. Scientific Reports, 2015, 4, 5768.	1.6	23

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73	High Q-factor plasmonic resonators in continuous graphene excited by insulator-covered silicon gratings. RSC Advances, 2014, 4, 26535.	1.7	31
74	Capacitance of carbon-based electrical double-layer capacitors. Nature Communications, 2014, 5, 3317.	5.8	600
75	LiFePO₄/reduced graphene oxide hybrid cathode for lithium ion battery with outstanding rate performance. Journal of Materials Chemistry A, 2014, 2, 7812-7818.	5.2	58
76	Enhanced lightâ€“matter interaction of grapheneâ€“gold nanoparticle hybrid films for high-performance SERS detection. Journal of Materials Chemistry C, 2014, 2, 4683-4691.	2.7	81
77	Interfacial capacitance of single layer graphene. Energy and Environmental Science, 2011, 4, 4685.	15.6	220
78	Carbon-Based Supercapacitors Produced by Activation of Graphene. Science, 2011, 332, 1537-1541.	6.0	5,528
79	Using coin cells for ultracapacitor electrode material testing. Journal of Applied Electrochemistry, 2011, 41, 681-686.	1.5	19
80	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. Journal of Physical Chemistry Letters, 2010, 1, 1259-1263.	2.1	436
81	Graphene and Graphene Oxide: Synthesis, Properties, and Applications. Advanced Materials, 2010, 22, 3906-3924.	11.1	8,959
82	Controlling the electrical transport properties of graphene by in situ metal deposition. Applied Physics Letters, 2010, 97, .	1.5	66
83	Exfoliation of Graphite Oxide in Propylene Carbonate and Thermal Reduction of the Resulting Graphene Oxide Platelets. ACS Nano, 2010, 4, 1227-1233.	7.3	663
84	Synthesis of isotopically-labeled graphite films by cold-wall chemical vapor deposition and electronic properties of graphene obtained from such films. Nano Research, 2009, 2, 851.	5.8	58
85	Large area few-layer graphene/graphite films as transparent thin conducting electrodes. Applied Physics Letters, 2009, 95, .	1.5	332
86	Transfer of Large-Area Graphene Films for High-Performance Transparent Conductive Electrodes. Nano Letters, 2009, 9, 4359-4363.	4.5	2,812
87	Transparent self-assembled films of reduced graphene oxide platelets. Applied Physics Letters, 2009, 95, .	1.5	171
88	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. Journal of Physical Chemistry C, 2009, 113, 18480-18486.	1.5	207