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	Graphene and Graphene Oxide: Synthesis, Properties, and Applications. Advanced Materials, 2010, 22, 3906-3924.	11.1	8,959
2	Carbon-Based Supercapacitors Produced by Activation of Graphene. Science, 2011, 332, 1537-1541.	6.0	5,528
3	Transfer of Large-Area Graphene Films for High-Performance Transparent Conductive Electrodes. Nano Letters, 2009, 9, 4359-4363.	4.5	2,812
4	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
5	Capacitance of carbon-based electrical double-layer capacitors. Nature Communications, 2014, 5, 3317.	5.8	600
6	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
7	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
8	Large area few-layer graphene/graphite films as transparent thin conducting electrodes. Applied Physics Letters, 2009, 95, .	1.5	332
9	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
10	Mass production and industrial applications of graphene materials. National Science Review, 2018, 5, 90-101.	4.6	222
11	Interfacial capacitance of single layer graphene. Energy and Environmental Science, 2011, 4, 4685.	15.6	220
12	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
13	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
14	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
15	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
16	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
17	Transparent self-assembled films of reduced graphene oxide platelets. Applied Physics Letters, 2009, 95, .	1.5	171
18	Robust Expandable Carbon Nanotube Scaffold for Ultrahighâ€Capacity Lithiumâ€Metal Anodes. Advanced Materials, 2018, 30, e1800884.	11.1	171

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19	Upraising the O 2p Orbital by Integrating Ni with MoO₂ for Accelerating Hydrogen Evolution Kinetics. ACS Catalysis, 2019, 9, 2275-2285.	5.5	165
20	High Areal Capacity and Lithium Utilization in Anodes Made of Covalently Connected Graphite Microtubes. Advanced Materials, 2017, 29, 1700783.	11.1	148
21	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. ACS Energy Letters, 2019, 4, 2585-2592.	8.8	137
22	Antibacterial Property of Graphene Quantum Dots (Both Source Material and Bacterial Shape Matter). ACS Applied Materials & Interfaces, 2016, 8, 20-25.	4.0	135
23	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
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	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. Scientific Reports, 2016, 6, 19028.	1.6	96
26	Creating Pores on Graphene Platelets by Lowâ€Temperature KOH Activation for Enhanced Electrochemical Performance. Small, 2016, 12, 2376-2384.	5.2	95
27	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
28	Tailoring the Structure of Carbon Nanomaterials toward Highâ€End Energy Applications. Advanced Materials, 2018, 30, e1802104.	11.1	92
29	3D Graphene Films Enable Simultaneously High Sensitivity and Large Stretchability for Strain Sensors. Advanced Functional Materials, 2018, 28, 1803221.	7.8	89
30	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
31	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
32	Charge Storage Mechanisms of Single-Layer Graphene in Ionic Liquid. Journal of the American Chemical Society, 2019, 141, 16559-16563.	6.6	67
33	Controlling the electrical transport properties of graphene by in situ metal deposition. Applied Physics Letters, 2010, 97, .	1.5	66
34	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
35	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
36	Highly densified carbon electrode materials towards practical supercapacitor devices. Science China Materials, 2017, 60, 25-38.	3.5	57

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37	In Operando Probing of Lithiumâ€ion Storage on Singleâ€Layer Graphene. Advanced Materials, 2019, 31, e1808091.	11.1	56
38	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
39	Designing ionic channels in novel carbons for electrochemical energy storage. National Science Review, 2020, 7, 191-201.	4.6	42
40	Rupturing C60Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. Small, 2015, 11, 5296-5304.	5.2	39
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	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
43	Design of atomically precise Au₂Pd₆nanoclusters for boosting electrocatalytic hydrogen evolution on MoS₂. Inorganic Chemistry Frontiers, 2018, 5, 2948-2954.	3.0	37
44	Advances in in-situ characterizations of electrode materials for better supercapacitors. Journal of Energy Chemistry, 2021, 54, 242-253.	7.1	37
45	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
46	Membranes of MnO Beading in Carbon Nanofibers as Flexible Anodes for High-Performance Lithium-Ion Batteries. Scientific Reports, 2015, 5, 14146.	1.6	34
47	High Q-factor plasmonic resonators in continuous graphene excited by insulator-covered silicon gratings. RSC Advances, 2014, 4, 26535.	1.7	31
48	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
49	Oxygenâ€Rich Carbon Quantum Dots as Catalysts for Selective Oxidation of Amines and Alcohols. ChemCatChem, 2018, 10, 259-265.	1.8	30
50	Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 17874-17881.	5.2	30
51	Anisotropic conductive networks for multidimensional sensing. Materials Horizons, 2021, 8, 2615-2653.	6.4	30
52	Raman spectroscopy study of sp2 to sp3 transition in bilayer graphene under high pressures. Applied Physics Letters, 2020, 116, .	1.5	29
53	Effect of Heteroatom and Charge Reconstruction in Atomically Precise Metal Nanoclusters on Electrochemical Synthesis of Ammonia. Advanced Functional Materials, 2022, 32, .	7.8	29
54	Highly Efficient Preparation of Graphite Oxide without Water Enhanced Oxidation. Chemistry of Materials, 2021, 33, 1731-1739.	3.2	26

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55	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
56	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
57	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
58	Using coin cells for ultracapacitor electrode material testing. Journal of Applied Electrochemistry, 2011, 41, 681-686.	1.5	19
59	Stronger Interlayer Interactions Contribute to Faster Hot Carrier Cooling of Bilayer Graphene under Pressure. Physical Review Letters, 2021, 126, 027402.	2.9	19
60	Rolling press of lithium with carbon for high-performance anodes. Energy Storage Materials, 2020, 24, 689-693.	9.5	17
61	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
62	Towards industrialization of graphene oxide. Science China Materials, 2020, 63, 1861-1869.	3.5	16
63	Activated carbon from the waste water purifier for supercapacitor application. Journal of Solid State Electrochemistry, 2017, 21, 3169-3177.	1.2	16
64	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
65	Enhanced physical properties of Î³-Al₂O₃â€“rGO hybrids prepared by solvothermal and hot-press processing. RSC Advances, 2018, 8, 8329-8337.	1.7	13
66	Hierarchical porous carbon obtained from frozen tofu for efficient energy storage. New Journal of Chemistry, 2018, 42, 12421-12428.	1.4	13
67	Microfluidic Oxidation of Graphite in Two Minutes with Capability of Realâ€Time Monitoring. Advanced Materials, 2022, 34, e2107083.	11.1	13
68	Phase-Changing in Graphite Assisted by Interface Charge Injection. Nano Letters, 2021, 21, 5648-5654.	4.5	12
69	Graphene standardization: The lesson from the East. Materials Today, 2021, 47, 9-15.	8.3	12
70	Hierarchical palladium catalyst for highly active and stable water oxidation in acidic media. National Science Review, 2023, 10, .	4.6	12
71	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
72	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

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73	Diameterâ€Sensitive Breakdown of Singleâ€Walled Carbon Nanotubes upon KOH Activation. ChemPhysChem, 2017, 18, 1929-1936.	1.0	8
74	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
75	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
76	Cobalt and nitrogen atoms co-doped porous carbon for advanced electrical double-layer capacitors. Chinese Chemical Letters, 2021, 32, 830-833.	4.8	7
77	Emerging flat bands in large-angle twisted bi-layer graphene under pressure. Nanoscale, 2021, 13, 9264-9269.	2.8	6
78	Heterogeneous stacking carbon films for optimized supercapacitor performance. Energy Storage Materials, 2022, 50, 365-372.	9.5	6
79	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
80	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
81	Electrochemical Characterization of Single Layer Graphene/Electrolyte Interface: Effect of Solvent on the Interfacial Capacitance. Angewandte Chemie, 2021, 133, 13429-13434.	1.6	5
82	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
83	A Sponge-Driven Elastic Interface for Lithium Metal Anodes. Research, 2019, 2019, 9129457.	2.8	3
84	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
85	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
86	Planar lighting from optimized graphite papers made of graphite oxide. Applied Physics Letters, 2017, 110, 211903.	1.5	1
87	Identification of graphene oxide and its structural features in solvents by optical microscopy. RSC Advances, 2019, 9, 18559-18564.	1.7	1
88	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