

Yanwu Zhu

List of Publications by Citations

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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 | Graphene and graphene oxide: synthesis, properties, and applications. <i>Advanced Materials</i> , 2010 , 22, 3906-24 | 24 | 7620 |
| 86 | Carbon-based supercapacitors produced by activation of graphene. <i>Science</i> , 2011 , 332, 1537-41 | 33.3 | 4940 |
| 85 | Transfer of large-area graphene films for high-performance transparent conductive electrodes. <i>Nano Letters</i> , 2009 , 9, 4359-63 | 11.5 | 2532 |
| 84 | 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 |
| 83 | Capacitance of carbon-based electrical double-layer capacitors. <i>Nature Communications</i> , 2014 , 5, 3317 | 17.4 | 463 |
| 82 | 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 |
| 81 | 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 |
| 80 | Large area few-layer graphene/graphite films as transparent thin conducting electrodes. <i>Applied Physics Letters</i> , 2009 , 95, 123115 | 3.4 | 305 |
| 79 | 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 |
| 78 | 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 |
| 77 | Interfacial capacitance of single layer graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 4685 | 35.4 | 165 |
| 76 | Mass production and industrial applications of graphene materials. <i>National Science Review</i> , 2018 , 5, 90-101 | 10.8 | 158 |
| 75 | Transparent self-assembled films of reduced graphene oxide platelets. <i>Applied Physics Letters</i> , 2009 , 95, 103104 | 3.4 | 155 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 70 | Robust Expandable Carbon Nanotube Scaffold for Ultrahigh-Capacity Lithium-Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, e1800884 | 24 | 132 |
| 69 | High Areal Capacity and Lithium Utilization in Anodes Made of Covalently Connected Graphite Microtubes. <i>Advanced Materials</i> , 2017 , 29, 1700783 | 24 | 123 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. <i>Scientific Reports</i> , 2016 , 6, 19028 | 4.9 | 77 |
| 64 | Creating Pores on Graphene Platelets by Low-Temperature KOH Activation for Enhanced Electrochemical Performance. <i>Small</i> , 2016 , 12, 2376-84 | 11 | 76 |
| 63 | Enhanced light-scattering 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 |
| 62 | Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019 , 4, 2585-2592 | 20.1 | 69 |
| 61 | Tailoring the Structure of Carbon Nanomaterials toward High-End Energy Applications. <i>Advanced Materials</i> , 2018 , 30, e1802104 | 24 | 65 |
| 60 | Controlling the electrical transport properties of graphene by in situ metal deposition. <i>Applied Physics Letters</i> , 2010 , 97, 053107 | 3.4 | 62 |
| 59 | 3D Graphene Films Enable Simultaneously High Sensitivity and Large Stretchability for Strain Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803221 | 15.6 | 60 |
| 58 | 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 |
| 57 | Construction of a 3D-rGO network-wrapping architecture in a YbCo ₄ Sb ₁₂ /rGO composite for enhancing the thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8643-8649 | 13 | 53 |
| 56 | 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 |
| 55 | 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 |
| 54 | Highly densified carbon electrode materials towards practical supercapacitor devices. <i>Science China Materials</i> , 2017 , 60, 25-38 | 7.1 | 42 |
| 53 | Incorporating Flexibility into Stiffness: Self-Grown Carbon Nanotubes in Melamine Sponges Enable A Lithium-Metal-Anode Capacity of 15 mA h cm ⁻² Cyclable at 15 mA cm ⁻² . <i>Advanced Materials</i> , 2019 , 31, e1805654 | 24 | 41 |

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| 52 | 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 |
| 51 | In Operando Probing of Lithium-Ion Storage on Single-Layer Graphene. <i>Advanced Materials</i> , 2019 , 31, e1808091 | 24 | 36 |
| 50 | Rupturing C60 Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. <i>Small</i> , 2015 , 11, 5296-304 | 11 | 33 |
| 49 | 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 |
| 48 | 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 |
| 47 | High Q-factor plasmonic resonators in continuous graphene excited by insulator-covered silicon gratings. <i>RSC Advances</i> , 2014 , 4, 26535 | 3.7 | 27 |
| 46 | 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 |
| 45 | 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 |
| 44 | Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17874-17881 | 13 | 23 |
| 43 | Manipulating size of Li ₃ V ₂ (PO ₄) ₃ with reduced graphene oxide: towards high-performance composite cathode for lithium ion batteries. <i>Scientific Reports</i> , 2014 , 4, 5768 | 4.9 | 21 |
| 42 | Oxygen-Rich Carbon Quantum Dots as Catalysts for Selective Oxidation of Amines and Alcohols. <i>ChemCatChem</i> , 2018 , 10, 259-265 | 5.2 | 20 |
| 41 | Advances in in-situ characterizations of electrode materials for better supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 54, 242-253 | 12 | 17 |
| 40 | Carbon-Based Supercapacitors Produced by the Activation of Graphene 2015 , 211-225 | | 16 |
| 39 | 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 |
| 38 | Designing ionic channels in novel carbons for electrochemical energy storage. <i>National Science Review</i> , 2020 , 7, 191-201 | 10.8 | 16 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |

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| 34 | Using coin cells for ultracapacitor electrode material testing. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 681-686 | 2.6 | 13 |
| 33 | 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 |
| 32 | Hierarchical porous carbon obtained from frozen tofu for efficient energy storage. <i>New Journal of Chemistry</i> , 2018 , 42, 12421-12428 | 3.6 | 10 |
| 31 | 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 |
| 30 | Rolling press of lithium with carbon for high-performance anodes. <i>Energy Storage Materials</i> , 2020 , 24, 689-693 | 19.4 | 10 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | Activated carbon from the waste water purifier for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3169-3177 | 2.6 | 7 |
| 23 | 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 |
| 22 | Anisotropic conductive networks for multidimensional sensing. <i>Materials Horizons</i> , 2021 , 8, 2615-2653 | 14.4 | 7 |
| 21 | Highly Efficient Preparation of Graphite Oxide without Water Enhanced Oxidation. <i>Chemistry of Materials</i> , 2021 , 33, 1731-1739 | 9.6 | 7 |
| 20 | Graphene standardization: The lesson from the East. <i>Materials Today</i> , 2021 , 47, 9-15 | 21.8 | 6 |
| 19 | Diameter-Sensitive Breakdown of Single-Walled Carbon Nanotubes upon KOH Activation. <i>ChemPhysChem</i> , 2017 , 18, 1929-1936 | 3.2 | 5 |
| 18 | Carbon Nanostructures: Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Li ₂ S Batteries (Adv. Mater. 41/2016). <i>Advanced Materials</i> , 2016 , 28, 9016-9016 | 34.16 | 5 |
| 17 | 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 |

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| 16 | 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 |
| 15 | Towards industrialization of graphene oxide. <i>Science China Materials</i> , 2020 , 63, 1861-1869 | 7.1 | 4 |
| 14 | 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 |
| 13 | 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 |
| 12 | A Sponge-Driven Elastic Interface for Lithium Metal Anodes. <i>Research</i> , 2019 , 2019, 9129457 | 7.8 | 3 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | Planar lighting from optimized graphite papers made of graphite oxide. <i>Applied Physics Letters</i> , 2017 , 110, 211903 | 3.4 | 1 |
| 6 | 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 |
| 5 | Phase-Changing in Graphite Assisted by Interface Charge Injection. <i>Nano Letters</i> , 2021 , 21, 5648-5654 | 11.5 | 1 |
| 4 | Identification of graphene oxide and its structural features in solvents by optical microscopy.. <i>RSC Advances</i> , 2019 , 9, 18559-18564 | 3.7 | 0 |
| 3 | Emerging flat bands in large-angle twisted bi-layer graphene under pressure. <i>Nanoscale</i> , 2021 , 13, 9264-9269 | 7.7 | 0 |
| 2 | Microfluidic Oxidation of Graphite in Two Minutes with Capability of Real-Time Monitoring.. <i>Advanced Materials</i> , 2022 , e2107083 | 24 | 0 |
| 1 | Rektitelbild: 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 | 0 |