# Guangmei Hou

List of Publications by Year
in descending order

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|---|---|---|---|
| 89 papers | 4,480 citations | 101543 36 h-index | 110387 64 g-index |
| 89 all docs | 89 docs citations | 89 times ranked | 5675 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Facile Fabrication of Nitrogenâ€Doped Porous Carbon as Superior Anode Material for Potassiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1802386. | 19.5 | 393 |
| 2 | Green, Scalable, and Controllable Fabrication of Nanoporous Silicon from Commercial Alloy Precursors for High-Energy Lithium-Ion Batteries. ACS Nano, 2018, 12, 4993-5002. | 14.6 | 269 |
| 3 | High performance agar/graphene oxide composite aerogel for methylene blue removal. Carbohydrate Polymers, 2017, 155, 345-353. | 10.2 | 251 |
| 4 | Micron-Sized Nanoporous Antimony with Tunable Porosity for High-Performance Potassium-Ion Batteries. ACS Nano, 2018, 12, 12932-12940. | 14.6 | 223 |
| 5 | Foldable potassium-ion batteries enabled by free-standing and flexible SnS<sub>2</sub>@C nanofibers. Energy and Environmental Science, 2021, 14, 424-436. | 30.8 | 142 |
| 6 | Lithium Dendrite Suppression and Enhanced Interfacial Compatibility Enabled by an Ex Situ SEI on Li Anode for LAGP-Based All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18610-18618. | 8.0 | 123 |
| 7 | Nanoporous Red Phosphorus on Reduced Graphene Oxide as Superior Anode for Sodium-Ion Batteries. ACS Nano, 2018, 12, 7380-7387. | 14.6 | 120 |
| 8 | Hierarchically porous carbon supported Sn4P3 as a superior anode material for potassium-ion batteries. Energy Storage Materials, 2019, 23, 367-374. | 18.0 | 120 |
| 9 | Structural Engineering of SnS<sub>2</sub> Encapsulated in Carbon Nanoboxes for Highâ€Performance Sodium/Potassiumâ€Ion Batteries Anodes. Small, 2020, 16, e2005023. | 10.0 | 120 |
| 10 | A Review of the Role of Solvents in Formation of High-Quality Solution-Processed Perovskite Films. ACS Applied Materials & Interfaces, 2019, 11, 7639-7654. | 8.0 | 113 |
| 11 | Nitrogen-doped carbon derived from pre-oxidized pitch for surface dominated potassium-ion storage. Carbon, 2019, 155, 601-610. | 10.3 | 110 |
| 12 | Hierarchical layer-by-layer porous FeCo<sub>2</sub>S<sub>4</sub>@Ni(OH)<sub>2</sub> arrays for all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 20480-20490. | 10.3 | 102 |
| 13 | Surfaceâ€Confined SnS<sub>2</sub>@C@rGO as Highâ€Performance Anode Materials for Sodiumâ€and Potassiumâ€Ion Batteries. ChemSusChem, 2019, 12, 2689-2700. | 6.8 | 98 |
| 14 | Hierarchical Porous Chitosan Sponges as Robust and Recyclable Adsorbents for Anionic Dye Adsorption. Scientific Reports, 2017, 7, 18054. | 3.3 | 94 |
| 15 | Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. Journal of Power Sources, 2019, 414, 308-316. | 7.8 | 87 |
| 16 | Metalâ€“Organic Framework Derived Iron Sulfideâ€“Carbon Coreâ€“Shell Nanorods as a Conversion-Type Battery Material. ACS Sustainable Chemistry and Engineering, 2017, 5, 5039-5048. | 6.7 | 82 |
| 17 | High efficient adsorption and storage of iodine on S, N co-doped graphene aerogel. Journal of Hazardous Materials, 2019, 373, 705-715. | 12.4 | 73 |
| 18 | Walnut-inspired microsized porous silicon/graphene coreâ€“shell composites for high-performance lithium-ion battery anodes. Nano Research, 2017, 10, 4274-4283. | 10.4 | 72 |

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|---|---|---|---|
| 19 | Self-supported multidimensional Niâ€“Fe phosphide networks with holey nanosheets for high-performance all-solid-state supercapacitors. Journal of Materials Chemistry A, 2019, 7, 17386-17399. | 10.3 | 72 |
| 20 | Tensile properties of millimeter-long multi-walled carbon nanotubes. Scientific Reports, 2017, 7, 9512. | 3.3 | 66 |
| 21 | High-performance red phosphorus/carbon nanofibers/graphene free-standing paper anode for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 1574-1581. | 10.3 | 65 |
| 22 | Nonflammable electrolyte for safer non-aqueous sodium batteries. Journal of Materials Chemistry A, 2015, 3, 14539-14544. | 10.3 | 64 |
| 23 | Tunable synthesis of LixMnO2 nanowires for aqueous Li-ion hybrid supercapacitor with high rate capability and ultra-long cycle life. Journal of Power Sources, 2019, 413, 302-309. | 7.8 | 63 |
| 24 | Surfactant-dependent flower- and grass-like Zn<sub>0.76</sub>Co<sub>0.24</sub>S/Co<sub>3</sub>S<sub>4</sub> for high-performance all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22830-22839. | 10.3 | 60 |
| 25 | Effective synthetic strategy for Zn<sub>0.76</sub>Co<sub>0.24</sub>S encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 14670-14680. | 10.3 | 59 |
| 26 | Fabrication of Perovskite Films with Large Columnar Grains via Solvent-Mediated Ostwald Ripening for Efficient Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 868-875. | 5.1 | 58 |
| 27 | Ultrathin carbon nanosheets for highly efficient capacitive K-ion and Zn-ion storage. Journal of Materials Chemistry A, 2020, 8, 22874-22885. | 10.3 | 58 |
| 28 | Control of the morphology of PbI<sub>2</sub> films for efficient perovskite solar cells by strong Lewis base additives. Journal of Materials Chemistry C, 2017, 5, 7458-7464. | 5.5 | 57 |
| 29 | Synergic mechanism of adsorption and metal-free catalysis for phenol degradation by N-doped graphene aerogel. Chemosphere, 2018, 191, 389-399. | 8.2 | 54 |
| 30 | Artificial Solid Electrolyte Interphase Coating to Reduce Lithium Trapping in Silicon Anode for High Performance Lithiumâ€ion Batteries. Advanced Materials Interfaces, 2019, 6, 1901187. | 3.7 | 54 |
| 31 | Sandwichâ€Like FeCl<sub>3</sub>@C as Highâ€Performance Anode Materials for Potassiumâ€ion Batteries. Advanced Materials Interfaces, 2018, 5, 1800606. | 3.7 | 53 |
| 32 | Metalâ€“organic framework-derived graphene@nitrogen doped carbon@ultrafine TiO<sub>2</sub> nanocomposites as high rate and long-life anodes for sodium ion batteries. Chemical Communications, 2016, 52, 12810-12812. | 4.1 | 48 |
| 33 | Elucidating the Key Role of a Lewis Base Solvent in the Formation of Perovskite Films Fabricated from the Lewis Adduct Approach. ACS Applied Materials & Interfaces, 2017, 9, 32868-32875. | 8.0 | 47 |
| 34 | MOF-based ionic sieve interphase for regulated Zn<sup>2+</sup> flux toward dendrite-free aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2022, 10, 4366-4375. | 10.3 | 45 |
| 35 | Mechanistic Insights into the Structural Modulation of Transition Metal Selenides to Boost Potassium Ion Storage Stability. ACS Nano, 2021, 15, 14697-14708. | 14.6 | 44 |
| 36 | Graphene encapsulated Fe<sub>3</sub>O<sub>4</sub> nanorods assembled into a mesoporous hybrid composite used as a high-performance lithium-ion battery anode material. Materials Chemistry Frontiers, 2017, 1, 1185-1193. | 5.9 | 41 |

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|---|---|---|---|
| 37 | Hollow nanoporous red phosphorus as an advanced anode for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 12992-12998. | 10.3 | 36 |
| 38 | Fast and stable K-ion storage enabled by synergistic interlayer and pore-structure engineering. Nano Research, 2021, 14, 4502-4511. | 10.4 | 36 |
| 39 | High annealing temperature induced rapid grain coarsening for efficient perovskite solar cells. Journal of Colloid and Interface Science, 2018, 524, 483-489. | 9.4 | 35 |
| 40 | Safe and Stable Lithium Metal Batteries Enabled by an Amide-Based Electrolyte. Nano-Micro Letters, 2022, 14, 44. | 27.0 | 34 |
| 41 | A heart-coronary arteries structure of carbon nanofibers/graphene/silicon composite anode for high performance lithium ion batteries. Scientific Reports, 2017, 7, 9642. | 3.3 | 28 |
| 42 | Ag doped urchin-like Î±-MnO2 toward efficient and bifunctional electrocatalysts for Li-O2 batteries. Nano Research, 2020, 13, 2356-2364. | 10.4 | 27 |
| 43 | Enhanced heterogeneous activation of peroxydisulfate by S, N co-doped graphene via controlling S, N functionalization for the catalytic decolorization of dyes in water. Chemosphere, 2018, 210, 120-128. | 8.2 | 25 |
| 44 | ZnCl<sub>2</sub>-activated carbon from soybean dregs as a high efficiency adsorbent for cationic dye removal: isotherm, kinetic, and thermodynamic studies. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 45 | 2.2 | 24 |
| 45 | Enhanced Air and Electrochemical Stability of Li<sub>7</sub>P<sub>3</sub>S<sub>11</sub>â€“Based Solid Electrolytes Enabled by Aliovalent Substitution of SnO<sub>2</sub>. Advanced Materials Interfaces, 2021, 8, 2100368. | 3.7 | 24 |
| 46 | A novel bifunctional additive for 5 V-class, high-voltage lithium ion batteries. RSC Advances, 2016, 6, 7224-7228. | 3.6 | 23 |
| 47 | Li metal-free rechargeable all-solid-state Li2S/Si battery based on Li7P3S11 electrolyte. Journal of Solid State Electrochemistry, 2019, 23, 3145-3151. | 2.5 | 23 |
| 48 | Investigation on Crystallization of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite and Its Intermediate Phase from Polar Aprotic Solvents. Crystal Growth and Design, 2019, 19, 959-965. | 3.0 | 22 |
| 49 | Impacts of surface chemistry of functional carbon nanodots on the plant growth. Ecotoxicology and Environmental Safety, 2020, 206, 111220. | 6.0 | 22 |
| 50 | Bifunctional In Situ Polymerized Interface for Stable LAGPâ€Based Lithium Metal Batteries. Advanced Materials Interfaces, 2021, 8, 2100072. | 3.7 | 22 |
| 51 | Focusing on the Subsequent Coulombic Efficiencies of SiO<sub>x</sub>: Initial High-Temperature Charge after Over-Capacity Prelithiation for High-Efficiency SiO<sub>x</sub>-Based Full-Cell Battery. ACS Applied Materials & Interfaces, 2022, 14, 14284-14292. | 8.0 | 22 |
| 52 | High Current Enabled Stable Lithium Anode for Ultralong Cycling Life of Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 30793-30800. | 8.0 | 21 |
| 53 | Enhanced bioaccumulation efficiency and tolerance for Cd (â…¡) in Arabidopsis thaliana by amphoteric nitrogen-doped carbon dots. Ecotoxicology and Environmental Safety, 2020, 190, 110108. | 6.0 | 21 |
| 54 | Biphenyl as overcharge protection additive for nonaqueous sodium batteries. RSC Advances, 2015, 5, 96649-96652. | 3.6 | 20 |

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|---|---|---|---|
| 55 | Unveil the Sizeâ€Dependent Mechanical Behaviors of Individual CNT/SiC Composite Nanofibers by In Situ Tensile Tests in SEM. Small, 2016, 12, 4486-4491. | 10.0 | 20 |
| 56 | Boron nitride doped Li7P3S11 solid electrolyte with improved interfacial compatibility and application in all-solid-state Li/S battery. Journal of Materials Science: Materials in Electronics, 2019, 30, 19119-19125. | 2.2 | 20 |
| 57 | A novel coral-like garnet for high-performance PEO-based all solid-state batteries. Science China Materials, 2022, 65, 364-372. | 6.3 | 20 |
| 58 | Enhancing the safety and electrochemical performance of ether based lithium sulfur batteries by introducing an efficient flame retarding additive. RSC Advances, 2016, 6, 53560-53565. | 3.6 | 19 |
| 59 | Perovskite Solar Cells Fabricated by Using an Environmental Friendly Aprotic Polar Additive of 1,3-Dimethyl-2-imidazolidinone. Nanoscale Research Letters, 2017, 12, 632. | 5.7 | 19 |
| 60 | Phosphorous-doped bimetallic sulfides embedded in heteroatom-doped carbon nanoarrays for flexible all-solid-state supercapacitors. Science China Materials, 2021, 64, 2439-2453. | 6.3 | 19 |
| 61 | MnO<sub>2</sub> nanotubes with a water soluble binder as high performance sodium storage materials. RSC Advances, 2016, 6, 103579-103584. | 3.6 | 18 |
| 62 | Mental-organic framework derived CuO hollow spheres as high performance anodes for sodium ion battery. Materials Technology, 2016, 31, 497-500. | 3.0 | 17 |
| 63 | Li<sub>2</sub>CO<sub>3</sub>: Insights into Its Blocking Effect on Li-Ion Transfer in Garnet Composite Electrolytes. ACS Applied Energy Materials, 2022, 5, 2853-2861. | 5.1 | 17 |
| 64 | Functional carbon nanodots improve soil quality and tomato tolerance in saline-alkali soils. Science of the Total Environment, 2022, 830, 154817. | 8.0 | 17 |
| 65 | Stable Lithium Anode of Liâ€“O<sub>2</sub> Batteries in a Wet Electrolyte Enabled by a High-Current Treatment. Journal of Physical Chemistry Letters, 2020, 11, 172-178. | 4.6 | 16 |
| 66 | A novel Lithium/Sodium hybrid aqueous electrolyte for hybrid supercapacitors based on LiFePO<sub>4</sub> and activated carbon. Functional Materials Letters, 2016, 09, 1642008. | 1.2 | 15 |
| 67 | Effects of functional carbon nanodots on water hyacinth response to Cd/Pb stress: Implication for phytoremediation. Journal of Environmental Management, 2021, 299, 113624. | 7.8 | 15 |
| 68 | Alleviation role of functional carbon nanodots for tomato growth and soil environment under drought stress. Journal of Hazardous Materials, 2022, 423, 127260. | 12.4 | 14 |
| 69 | Carbon Nanotubesâ€Based Electrocatalysts: Structural Regulation, Support Effect, and Synchrotronâ€Based Characterization. Advanced Functional Materials, 2022, 32, 2106684. | 14.9 | 14 |
| 70 | Facile hydrothermal growth of VO2 nanowire, nanorod and nanosheet arrays as binder free cathode materials for sodium batteries. RSC Advances, 2016, 6, 14314-14320. | 3.6 | 13 |
| 71 | Highly flexible electromagnetic interference shielding films based on ultrathin Ni/Ag composites on paper substrates. Journal of Materials Science, 2021, 56, 5570-5580. | 3.7 | 13 |
| 72 | Self-supporting soft carbon fibers as binder-free and flexible anodes for high-performance sodium-ion batteries. Materials Technology, 2018, 33, 810-814. | 3.0 | 12 |

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|---|---|---|---|
| 73 | Enhanced performance of perovskite solar cells by strengthening a self-embedded solvent annealing effect in perovskite precursor films. RSC Advances, 2017, 7, 49144-49150. | 3.6 | 11 |
| 74 | Adsorptive Removal of Cationic Dye from Aqueous Solution by Graphene Oxide/Cellulose Acetate Composite. Journal of Nanoscience and Nanotechnology, 2019, 19, 4535-4542. | 0.9 | 11 |
| 75 | Lewis Acidity Organoboronâ€Modified Liâ€Rich Cathode Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2021, 8, 2002113. | 3.7 | 11 |
| 76 | Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. Analytical and Bioanalytical Chemistry, 2019, 411, 1863-1871. | 3.7 | 10 |
| 77 | Flexible rGO @ Nonwoven Fabricsâ€™ Membranes Guide Stable Lithium Metal Anodes for Lithiumâ€“Oxygen Batteries. ACS Applied Energy Materials, 2020, 3, 7944-7951. | 5.1 | 9 |
| 78 | Enhanced Electrochemical Performance of Li<sub>1.2</sub>[Mn<sub>0.54</sub>Co<sub>0.13</sub>Ni<sub>0.13</sub>]O<sub>2</sub> Enabled by Synergistic Effect of Li<sub>1.5</sub>Na<sub>0.5</sub>SiO<sub>3</sub> Modification. Advanced Materials Interfaces, 2020, 7, 2000378. | 3.7 | 9 |
| 79 | Reversible LiOH chemistry in Li-O2 batteries with free-standing Ag/Î´-MnO2 nanoflower cathode. Science China Materials, 2022, 65, 1431-1442. | 6.3 | 9 |
| 80 | Low-cost and facile synthesis of LAGP solid state electrolyte via a co-precipitation method. Applied Physics Letters, 2022, 121, 023904. | 3.3 | 8 |
| 81 | Trash to treasure: recycling discarded agarose gel for practical Na/K-ion batteries. Journal of Materials Chemistry A, 2022, 10, 15026-15035. | 10.3 | 7 |
| 82 | Ballâ€Milling Strategy for Fast and Stable Potassiumâ€Ion Storage in Antimonyâ€Carbon Composite Anodes. ChemElectroChem, 2020, 7, 4587-4593. | 3.4 | 6 |
| 83 | Crystallization of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3â^'x</sub>Br<sub>x</sub> perovskite from micro-droplets of lead acetate precursor solution. CrystEngComm, 2018, 20, 3058-3065. | 2.6 | 5 |
| 84 | Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 25286-25293. | 3.1 | 5 |
| 85 | Promotion effect of nitrogen-doped functional carbon nanodots on the early growth stage of plants. Oxford Open Materials Science, 2020, 1, . | 1.8 | 5 |
| 86 | Fabrication of Perovskite Films with Long Carrier Lifetime for Efficient Perovskite Solar Cells from Low-Toxicity 1-Ethyl-2-Pyrrolidone. ACS Applied Energy Materials, 2019, 2, 320-327. | 5.1 | 4 |
| 87 | Spontaneous In Situ Surface Alloying of Li-Zn Derived from a Novel Zn2+-Containing Solid Polymer Electrolyte for Steady Cycling of Li Metal Battery. ACS Sustainable Chemistry and Engineering, 2021, 9, 4282-4292. | 6.7 | 4 |
| 88 | Ag<sub>x</sub>Mn<sub>8</sub>O<sub>16</sub> Cathode Enables High-Performance Aqueous Li-Ion Hybrid Supercapacitors. Energy & Fuels, 2021, 35, 15101-15107. | 5.1 | 3 |
| 89 | Green and Facile Synthesis of Nanosized Polythiophene as an Organic Anode for High-Performance Potassium-Ion Battery. , 2021, , 159-166. | | 0 |