

# Wei Du

## List of Publications by Year in descending order

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72  
papers

4,015  
citations

126858

33  
h-index

118793

62  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3445  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Spinel structured MFe <sub>2</sub> O <sub>4</sub> (M = Fe, Co, Ni, Mn, Zn) and their composites for microwave absorption: A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131160.  | 6.6 | 143       |
| 2  | Facile synthesis of various Co <sub>3</sub> O <sub>4</sub> /bio-activated carbon electrodes for hybrid capacitor device application. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161967.  | 2.8 | 22        |
| 3  | TM <sub>3</sub> (TM = V, Fe, Mo, W) single-cluster catalyst confined on porous BN for electrocatalytic nitrogen reduction. <i>Journal of Materials Science and Technology</i> , 2022, 108, 46-53.   | 5.6 | 19        |
| 4  | Morphology controlled hierarchical NiS/carbon hexahedrons derived from nitrilotriacetic acid-assembly strategy for high-performance hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 433, 133673.  | 6.6 | 76        |
| 5  | One-Step Synthesis of Popcorn Carbon/Co <sub>3</sub> O <sub>4</sub> Composites as High-Performance Supercapacitor Electrodes. <i>Crystals</i> , 2022, 12, 76.   | 1.0 | 4         |
| 6  | N-Doped celery-based biomass carbon with tunable Co <sub>3</sub> O <sub>4</sub> loading for enhanced-performance of solid-state supercapacitors. <i>New Journal of Chemistry</i> , 2022, 46, 6921-6931.   | 1.4 | 3         |
| 7  | Co <sub>3</sub> O <sub>4</sub> nanoparticle-dotted hierarchical-assembled carbon nanosheet framework catalysts with the formation/decomposition mechanisms of Li <sub>2</sub> O <sub>2</sub> for smart lithium-oxygen batteries. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1115-1124. | 3.0 | 76        |
| 8  | Realization of the dehydrogenation pathway of formic acid oxidation by ultra-small core-shell Au-Pt nanoparticles with discrete Pt shells. <i>Materials Advances</i> , 2022, 3, 2786-2792.  | 2.6 | 3         |
| 9  | S-doped AuPd aerogels as high efficiency catalysts for the oxygen reduction reaction by balancing the ratio between bridging S <sub>2</sub> <sup>2+</sup> and apical S <sup>2+</sup> ligands. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7800-7810.                                | 5.2 | 5         |
| 10 | Adsorption Behavior of Environmental Gas Molecules on Pristine and Defective MoSi <sub>2</sub> N <sub>4</sub> : Possible Application as Highly Sensitive and Reusable Gas Sensors. <i>ACS Omega</i> , 2022, 7, 8706-8716.   | 1.6 | 20        |
| 11 | Oxidative degradation of phenols and substituted phenols in the water and atmosphere: a review. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 627-640.   | 9.9 | 87        |
| 12 | Large-Area Monolayer Films of Hexagonal Close-Packed Au@Ag Nanoparticles as Substrates for SERS-Based Quantitative Determination. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13480-13489.  | 4.0 | 19        |
| 13 | Recent progress in cathode catalyst for nonaqueous lithium oxygen batteries: a review. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 606-626.  | 9.9 | 165       |
| 14 | Embedding NiS nanoflakes in electrospun carbon fibers containing NiS nanoparticles for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 446, 137262.   | 6.6 | 66        |
| 15 | Facile synthesis of cobalt-doped Ni <sub>3</sub> (NO <sub>3</sub> ) <sub>2</sub> (OH) <sub>4</sub> porous nanosheets for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 17284-17294.   | 1.1 | 1         |
| 16 | Efficient exfoliation method of sodium-ruthenium composites for acid water oxidation. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2536-2545.   | 9.9 | 7         |
| 17 | TiN/Al <sub>2</sub> O <sub>3</sub> binary ceramics for negative permittivity metamaterials at kHz frequencies. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157499.  | 2.8 | 60        |
| 18 | Fabrication of ultrathin single-layer 2D metal-organic framework nanosheets with excellent adsorption performance via a facile exfoliation approach. <i>Journal of Materials Chemistry A</i> , 2021, 9, 546-555.  | 5.2 | 55        |

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|----|---|-----|-----------|
| 19 | Defective Fe <sub>3</sub> GeTe <sub>2</sub> monolayer as a promising electrocatalyst for spontaneous nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6945-6954.   | 5.2 | 18        |
| 20 | Fe ultra-small particles anchored on carbon aerogels to enhance the oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6861-6871.  | 5.2 | 28        |
| 21 | Interaction of Humic Acid with Graphene Oxide: Relation to Antibacterial Activities Against <i>Escherichia coli</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1430-1438.   | 0.9 | 0         |
| 22 | Establishing High-Performance Quasi-Solid Zn/I <sub>2</sub> Batteries with Alginate-Based Hydrogel Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 24756-24764.   | 4.0 | 64        |
| 23 | SnS <sub>2</sub> Nanosheets with RGO Modification as High-Performance Anode Materials for Na-Ion and K-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1932.  | 1.9 | 13        |
| 24 | Fabrication of a Wide Color Gamut pc-WLED Surpassing 107% NTSC Based on a Robust Luminescent Uranyl Phosphate. <i>Chemistry of Materials</i> , 2021, 33, 6329-6337.   | 3.2 | 9         |
| 25 | A novel (Î±-Î²)NiS/Ni <sub>3</sub> S <sub>4</sub> -rGO electrode material for supercapacitors. <i>Colloids and Interface Science Communications</i> , 2021, 43, 100453.   | 2.0 | 6         |
| 26 | Efficient microwave absorber and supercapacitors derived from puffed-rice-based biomass carbon: Effects of activating temperature. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 290-303.                                  | 5.0 | 99        |
| 27 | Agaric-like anodes of porous carbon decorated with MoO <sub>2</sub> nanoparticles for stable ultralong cycling lifespan and high-rate lithium/sodium storage. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 396-407.       | 5.0 | 129       |
| 28 | Ratiometric recognition of humidity by a europium-organic framework equipped with quasi-open metal site. <i>Science China Chemistry</i> , 2021, 64, 1723-1729.  | 4.2 | 7         |
| 29 | Zn-Ce based bimetallic organic frameworks derived ZnSe/CeO <sub>2</sub> nanoparticles encapsulated by reduced graphene oxide for enhanced sodium-ion and lithium-ion storage. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159903. | 2.8 | 18        |
| 30 | Multiple reflection and scattering effects of the lotus seedpod-based activated carbon decorated with Co <sub>3</sub> O <sub>4</sub> microwave absorbent. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 344-354.           | 5.0 | 16        |
| 31 | Ultrasensitive and Selective Detection of Uranium by a Luminescent Terbium-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51086-51094.  | 4.0 | 24        |
| 32 | Recent advances in transition metal oxides with different dimensions as electrodes for high-performance supercapacitors. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 906-924.  | 9.9 | 281       |
| 33 | Recent advances in hydrogen generation process via hydrolysis of Mg-based materials: A short review. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152634.  | 2.8 | 65        |
| 34 | A Long-Life Battery-Type Electrochromic Window with Remarkable Energy Storage Ability. <i>Solar Rrl</i> , 2020, 4, 1900425.   | 3.1 | 37        |
| 35 | Improved electrochemical performance of 2D accordion-like MnV <sub>2</sub> O <sub>6</sub> nanosheets as anode materials for Li-ion batteries. <i>Dalton Transactions</i> , 2020, 49, 1794-1802.   | 1.6 | 41        |
| 36 | One-step synthesis of the reduced graphene oxide@NiO composites for supercapacitor electrodes by electrode-assisted plasma electrolysis. <i>Materials and Design</i> , 2020, 196, 109111.   | 3.3 | 67        |

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|----|---|-----|-----------|
| 37 | First-principles studies in Mg-based hydrogen storage Materials: A review. Energy, 2020, 211, 118959.   | 4.5 | 60        |
| 38 | Synthesis of large gold nanoparticles with deformation twinings by one-step seeded growth with Cu( $\text{Cu}$ )-mediated Ostwald ripening for determining nitrile and isonitrile groups. Nanoscale, 2020, 12, 16934-16943.   | 2.8 | 9         |
| 39 | Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn-air batteries. Journal of Materials Chemistry A, 2020, 8, 17136-17149. | 5.2 | 64        |
| 40 | Willow-Leaf-Like ZnSe@N-Doped Carbon Nanoarchitecture as a Stable and High-Performance Anode Material for Sodium-Ion and Potassium-Ion Batteries. Small, 2020, 16, e2004580.  | 5.2 | 106       |
| 41 | Dielectric parameters of activated carbon derived from rosewood and corncob. Journal of Materials Science: Materials in Electronics, 2020, 31, 18077-18084.   | 1.1 | 14        |
| 42 | Enhancing hydrogen evolution of MoS <sub>2</sub> basal planes by combining single-boron catalyst and compressive strain. Frontiers of Physics, 2020, 15, 1.   | 2.4 | 20        |
| 43 | A Long-Life Battery-Type Electrochromic Window with Remarkable Energy Storage Ability. Solar Rrl, 2020, 4, 2070036.   | 3.1 | 27        |
| 44 | Facile fabrication of Co@C nanoparticles with different carbon-shell thicknesses: high-performance microwave absorber and efficient catalyst for the reduction of 4-nitrophenol. CrystEngComm, 2020, 22, 4591-4601.   | 1.3 | 12        |
| 45 | NiS nanoparticles assembled on biological cell walls-derived porous hollow carbon spheres as a novel battery-type electrode for hybrid supercapacitor. Journal of Materials Science, 2020, 55, 14431-14446.   | 1.7 | 56        |
| 46 | Microwave absorption properties of microporous CoNi@(NiO-CoO) nanoparticles through dealloying. Journal of Magnetism and Magnetic Materials, 2020, 503, 166631.   | 1.0 | 33        |
| 47 | MnO <sub>2</sub> /Carbon Composites for Supercapacitor: Synthesis and Electrochemical Performance. Frontiers in Materials, 2020, 7, .   | 1.2 | 98        |
| 48 | Phase and morphology evolution of high dielectric CoO/Co <sub>3</sub> O <sub>4</sub> particles with Co <sub>3</sub> O <sub>4</sub> nanoneedles on surface for excellent microwave absorption application. Chemical Engineering Journal, 2020, 396, 125205.          | 6.6 | 113       |
| 49 | Recent Advances in Co <sub>3</sub> O <sub>4</sub> as Anode Materials for High-Performance Lithium-Ion Batteries. Engineered Science, 2020, , .  | 1.2 | 62        |
| 50 | Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6490-6496.   | 2.5 | 247       |
| 51 | Fe <sub>3</sub> O <sub>4</sub> Hollow Nanosphere-Coated Spherical-Graphite Composites: A High-Rate Capacity and Ultra-Long Cycle Life Anode Material for Lithium Ion Batteries. Nanomaterials, 2019, 9, 996.  | 1.9 | 15        |
| 52 | Enhanced microwave absorption properties of Fe <sub>3</sub> C/C nanofibers prepared by electrospinning. Journal of Alloys and Compounds, 2019, 804, 305-313.  | 2.8 | 75        |
| 53 | Facile synthesis of lotus seedpod-based 3D hollow porous activated carbon/manganese dioxide composite for supercapacitor electrode. Journal of Electroanalytical Chemistry, 2019, 853, 113561.  | 1.9 | 34        |
| 54 | Chiffon cake-derived hierarchically porous carbon with efficient microwave absorption properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 19173-19181.  | 1.1 | 12        |

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|----|--|-----|-----------|
| 55 | Review on Carbon/Polyaniline Hybrids: Design and Synthesis for Supercapacitor. <i>Molecules</i> , 2019, 24, 2263.  | 1.7 | 98        |
| 56 | A photo-/thermo-dual-responsible Cs <sub>x</sub> WO <sub>3</sub> /PNIPAM composite hydrogel for energy-efficient windows. <i>Materials Research Express</i> , 2019, 6, 085708.   | 0.8 | 7         |
| 57 | Size Control Synthesis of Monodisperse, Quasi-Spherical Silver Nanoparticles To Realize Surface-Enhanced Raman Scattering Uniformity and Reproducibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17637-17646.                     | 4.0 | 55        |
| 58 | One-pot synthesized molybdenum dioxide@molybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13460-13472. | 5.2 | 220       |
| 59 | Novel three-dimensional polyaniline nanothorns vertically grown on buckypaper as high-performance supercapacitor electrode. <i>Nanotechnology</i> , 2019, 30, 325401.  | 1.3 | 17        |
| 60 | Fabrication of Au aerogels with {110}-rich facets by size-dependent surface reconstruction for enzyme-free glucose detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7588-7598.  | 2.9 | 10        |
| 61 | Compressive Strain in Core@Shell Au@Pd Nanoparticles Introduced by Lateral Confinement of Deformation Twinning to Enhance the Oxidation Reduction Reaction Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 46902-46911.       | 4.0 | 25        |
| 62 | Biological cell template synthesis of nitrogen-doped porous hollow carbon spheres/MnO <sub>2</sub> composites for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019, 296, 907-915.                                      | 2.6 | 365       |
| 63 | Simple synthesis and surface facet-tuning of ultrathin alloy-shells of Au@AuPd nanoparticles via silver-assisted co-reduction onto facet-controlled Au nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7675-7685.                  | 5.2 | 28        |
| 64 | Extended shear bands in interior of Pd-based bulk metallic glasses. <i>Rare Metals</i> , 2018, 37, 54-58.  | 3.6 | 3         |
| 65 | pH-Dependent growth of atomic Pd layers on trisoctahedral gold nanoparticles to realize enhanced performance in electrocatalysis and chemical catalysis. <i>Nanoscale</i> , 2018, 10, 22302-22311.   | 2.8 | 12        |
| 66 | Recycled Carbon Fiber-Supported Polyaniline/Manganese Dioxide Prepared via One-Step Electrodeposition for Flexible Supercapacitor Integrated Electrodes. <i>Polymers</i> , 2018, 10, 1152.   | 2.0 | 13        |
| 67 | Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 281-295.  | 4.0 | 160       |
| 68 | Nitrogen-doped hierarchical porous carbon using biomass-derived activated carbon/carbonized polyaniline composites for supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 213-220.                                | 1.9 | 94        |
| 69 | Regulating Surface Facets of Metallic Aerogel Electrocatalysts by Size-Dependent Localized Ostwald Ripening. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23081-23093.  | 4.0 | 26        |
| 70 | Carbonized <i>Enteromorpha prolifera</i> with porous architecture and its polyaniline composites as high-performance electrode materials for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2017, 802, 15-21.                      | 1.9 | 26        |
| 71 | Oral magnetite nanoparticles disturb the development of <i>Drosophila melanogaster</i> from oogenesis to adult emergence. <i>Nanotoxicology</i> , 2015, 9, 302-312.  | 1.6 | 43        |
| 72 | Wide microwave absorption bandwidth of the puffed-rice-based carbon obtained at 950°C. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .  | 1.1 | 3         |