

# Rong-Hua Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,404  
citations

471509

17  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2387  
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance asymmetric supercapacitors: New NiOOH nanosheet/graphene hydrogels and pure graphene hydrogels. <i>Nano Energy</i> , 2016, 19, 210-221.	16.0	288
2	Ru Single Atoms on N-Doped Carbon by Spatial Confinement and Ionic Substitution Strategies for High-Performance Li <sup>+</sup> /O <sub>2</sub> Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 16776-16786.	13.7	230
3	Heat-induced formation of porous and free-standing MoS <sub>2</sub> /GS hybrid electrodes for binder-free and ultralong-life lithium ion batteries. <i>Nano Energy</i> , 2014, 8, 183-195.	16.0	129
4	Solvothermal-induced Self-Assembly of Fe <sub>2</sub> O <sub>3</sub> /GS Aerogels for High Li <sup>+</sup> Storage and Excellent Stability. <i>Small</i> , 2014, 10, 2260-2269.	10.0	102
5	Hydrothermal synthesis of nanostructured graphene/polyaniline composites as high-capacitance electrode materials for supercapacitors. <i>Scientific Reports</i> , 2017, 7, 44562.	3.3	76
6	Achieving high energy density in a 4.5 V all nitrogen-doped graphene based lithium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19909-19921.	10.3	65
7	Graphene Oxide Enabled Flexible PEO-Based Solid Polymer Electrolyte for All-Solid-State Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2021, 4, 3660-3669.	5.1	59
8	Self-supporting Co <sub>3</sub> O <sub>4</sub> /Graphene Hybrid Films as Binder-free Anode Materials for Lithium Ion Batteries. <i>Scientific Reports</i> , 2018, 8, 3182.	3.3	55
9	3D few-layered MoS <sub>2</sub> /graphene hybrid aerogels on carbon fiber papers: A free-standing electrode for high-performance lithium/sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 398, 125592.	12.7	52
10	Solvothermal-induced construction of ultra-tiny Fe <sub>2</sub> O <sub>3</sub> nanoparticles/graphene hydrogels as binder-free high-capacitance anode for supercapacitors. <i>Rare Metals</i> , 2021, 40, 3520-3530.	7.1	47
11	Hydroxyapatite Nanowire-Reinforced Poly(ethylene oxide)-Based Polymer Solid Electrolyte for Application in High-Temperature Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54637-54643.	8.0	45
12	Rational Design of Layered SnS <sub>2</sub> on Ultralight Graphene Fiber Fabrics as Binder-Free Anodes for Enhanced Practical Capacity of Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 66.	27.0	44
13	Functionalized 12 Å Polyethylene Separator to Realize Dendrite-Free Lithium Deposition toward Highly Stable Lithium-Metal Batteries. <i>Advanced Science</i> , 2022, 9, e2102215.	11.2	35
14	Nanocarbon-Based Electrocatalysts for Rechargeable Aqueous Li/Zn-Air Batteries. <i>ChemElectroChem</i> , 2018, 5, 1745-1763.	3.4	34
15	Freeze-drying induced self-assembly approach for scalable constructing MoS <sub>2</sub> /graphene hybrid aerogels for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2019, 544, 37-45.	9.4	33
16	A three-dimensional sponge of graphene nanoribbons crosslinked by Fe <sub>3</sub> O <sub>4</sub> nanoparticles for Li <sup>+</sup> storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23592-23599.	10.3	32
17	Graphene nanosheets as backbones to build a 3D conductive network for negative active materials of lead-acid batteries. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 619-630.	2.9	21
18	Design of Nb <sub>2</sub> O <sub>5</sub> /graphene hybrid aerogel as polymer binder-free electrodes for lithium-ion capacitors. <i>Materials Technology</i> , 2020, 35, 625-634.	3.0	18

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19	Fabricating 3D Macroscopic Graphene-Based Architectures with Outstanding Flexibility by the Novel Liquid Drop/Colloid Flocculation Approach for Energy Storage Applications. ACS Applied Materials & Interfaces, 2018, 10, 21991-22001.	8.0	12
20	Engineering lithiophilic Ni-Al@LDH interlayers on a garnet-type electrolyte for solid-state lithium metal batteries. Chemical Communications, 2021, 57, 10214-10217.	4.1	7
21	Compressible Neuron-like 3D Few-Layered MoS <sub>2</sub> /N-Doped Graphene Foam as Freestanding and Binder-Free Electrodes for High-Performance Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 7249-7259.	5.1	6
22	Electrochemical performances of graphene nanoribbons interlacing hollow NiCo oxide nanocages. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	5
23	Ultra-small MnCo <sub>2</sub> O <sub>4</sub> nanocrystals decorated on nitrogen-enriched carbon nanofibers as oxygen cathode for Li-O <sub>2</sub> batteries. Functional Materials Letters, 2020, 13, 2051035.	1.2	4
24	Rational Design of an FeCo <sub>2</sub> O <sub>4</sub> @FeCo <sub>2</sub> S <sub>4</sub> Heterostructure as an Efficient Bifunctional Electrocatalyst for Zn-Air Batteries. ACS Applied Energy Materials, 2022, 5, 9742-9749.	5.1	4