

# Hui-Qi Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,915  
citations

279798

23  
h-index

265206

42  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2225  
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO <sub>2</sub> modification with multi-acid treatment for efficient interfacial perovskite-TiO <sub>2</sub> electron transport. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162837.	5.5	4
2	Rational construction of densely packed Si/MXene composite microspheres enables favorable sodium storage. <i>Rare Metals</i> , 2022, 41, 1626-1636.	7.1	20
3	Preparation and Thermal Characterization of Hollow Graphite Fibers/Paraffin Composite Phase Change Material. <i>Coatings</i> , 2022, 12, 160.	2.6	2
4	AlP-regulated phosphorus vacancies over Ni-Fe-P compounds promoting efficient and durable hydrogen generation in acidic media. <i>Dalton Transactions</i> , 2022, 51, 4033-4042.	3.3	6
5	Bottom-up synthesized crystalline boron quantum dots with nonvolatile memory effects through one-step hydrothermal polymerization of ammonium pentaborane and boric acid. <i>CrystEngComm</i> , 2022, 24, 3469-3474.	2.6	5
6	Richly electron-deficient BC <sub>3</sub> O <sub>3</sub> anodes with enhanced reaction kinetics for sodium/potassium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1882-1894.	5.9	4
7	Constructing a Grape-like Silicon/Mildly Expanded Graphite Microsphere Composite as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Energy &amp; Fuels</i> , 2021, 35, 806-815.	5.1	9
8	Crystalline borophene quantum dots and their derivative boron nanospheres. <i>Materials Advances</i> , 2021, 2, 3269-3273.	5.4	20
9	Hierarchical porous carbon fiber for fiber-shaped supercapacitor. <i>Functional Materials Letters</i> , 2021, 14, 2150016.	1.2	6
10	Secondary granulation-assisted CVD growth of WS <sub>2</sub> , TiS <sub>2</sub> and NbS <sub>2</sub> crystals. <i>Functional Materials Letters</i> , 2021, 14, 2151029.	1.2	1
11	Lattice-Coupled Si/MXene Confined by Hard Carbon for Fast Sodium-Ion Conduction. <i>ACS Applied Energy Materials</i> , 2021, 4, 7268-7277.	5.1	29
12	Photothermal, photocatalytic, and anti-bacterial Ti-Ag-O nanoporous powders for interfacial solar driven water evaporation. <i>Ceramics International</i> , 2021, 47, 19800-19808.	4.8	15
13	Pore structure engineering of wood-derived hard carbon enables their high-capacity and cycle-stable sodium storage properties. <i>Electrochimica Acta</i> , 2021, 391, 139000.	5.2	13
14	Origin of sonocatalytic activity of fluorescent carbon dots. <i>Carbon</i> , 2021, 184, 102-108.	10.3	16
15	Incorporating quantum-sized boron dots into 3D cross-linked rGO skeleton to enable the activity of boron anode for favorable lithium storage. <i>Chemical Engineering Journal</i> , 2021, 425, 130659.	12.7	16
16	Constructing mild expanded graphite microspheres by pressurized oxidation combined microwave treatment for enhanced lithium storage. <i>Rare Metals</i> , 2021, 40, 837-847.	7.1	29
17	Atomic Fe-N <sub>5</sub> catalytic sites embedded in N-doped carbon as a highly efficient oxygen electrocatalyst for zinc-air batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 8127-8137.	5.9	13
18	Molybdenum Selenide/Porous Carbon Nanomaterial Heterostructures with Remarkably Enhanced Light-Boosting Peroxidase-like Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54274-54283.	8.0	4

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19	Dynamic restructuring of carbon dots/copper oxide supported on mesoporous hydroxyapatite brings exceptional catalytic activity in the reduction of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118299.	20.2	62
20	A Cu <sub>2</sub> O-CDs-Cu three component catalyst for boosting oxidase-like activity with hot electrons. <i>Chemical Engineering Journal</i> , 2020, 382, 122484.	12.7	41
21	Green, energy-efficient preparation of CDs-embedded BiPO <sub>4</sub> heterostructure for better light harvesting and conversion. <i>Chemical Engineering Journal</i> , 2020, 391, 123551.	12.7	7
22	Highly improved mechanical performances of polyvinyl butyral through fluorescent carbon dots. <i>Materials Letters</i> , 2020, 280, 128537.	2.6	7
23	Boosting photocatalytic activity through in-situ phase transformation of bismuth-based compounds on carbon dots and quantification analysis of intrinsically reactive species in photocatalysis. <i>Carbon</i> , 2020, 165, 175-184.	10.3	20
24	PbTe nanodots confined on ternary B <sub>2</sub> O <sub>3</sub> /BC <sub>2</sub> O/C nanosheets as electrode for efficient sodium storage. <i>Journal of Power Sources</i> , 2020, 461, 228110.	7.8	16
25	Highly microporous SbPO <sub>4</sub> /BC hybrid anodes for sodium-ion batteries. <i>Materials Advances</i> , 2020, 1, 206-214.	5.4	12
26	Carbon dots-stabilized Cu <sub>4</sub> O <sub>3</sub> for a multi-responsive nanozyme with exceptionally high activity. <i>Chemical Engineering Journal</i> , 2020, 394, 125045.	12.7	43
27	Expansive Behavior in Circular Steel Tube Stub Columns of SCC Blended with CFB Bottom Ashes. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	8
28	Acetylene black enhancing the electrochemical performance of NiCo-MOF nanosheets for supercapacitor electrodes. <i>Applied Surface Science</i> , 2019, 492, 455-463.	6.1	126
29	Self-assembly carbon dots for powerful solar water evaporation. <i>Carbon</i> , 2019, 149, 556-563.	10.3	109
30	Nitrogen-doped carbon dots encapsulated in the mesoporous channels of SBA-15 with solid-state fluorescence and excellent stability. <i>Nanoscale</i> , 2019, 11, 7247-7255.	5.6	34
31	Facile Synthesis of Carbon Dots@2D MoS <sub>2</sub> Heterostructure with Enhanced Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2019, 58, 5746-5752.	4.0	31
32	Ultrathin NiCo-MOF Nanosheets for High-Performance Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 2063-2071.	5.1	319
33	Fluorine-free superhydrophobic carbon-based coatings on the concrete. <i>Materials Letters</i> , 2019, 244, 31-34.	2.6	33
34	Electronic and photocatalytic properties of modified MoS <sub>2</sub> /graphene quantum dots heterostructures: A computational study. <i>Applied Surface Science</i> , 2019, 473, 70-76.	6.1	14
35	Urchin-like Ni <sub>1/3</sub> Co <sub>2/3</sub> (CO <sub>3</sub> ) <sub>0.5</sub> OH·0.11H <sub>2</sub> O anchoring on polypyrrole nanotubes for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2019, 295, 989-996.	5.2	57
36	Structural and electronic properties of effective p-type doping WS <sub>2</sub> monolayers: A computational study. <i>Solid State Communications</i> , 2018, 269, 58-63.	1.9	11

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37	Carbon-Dot-Based Heterojunction for Engineering Band-Edge Position and Photocatalytic Performance. <i>Small</i> , 2018, 14, e1803447.	10.0	53
38	In-situ incorporation of carbon dots into mesoporous nickel boride for regulating photocatalytic activities. <i>Carbon</i> , 2018, 137, 484-492.	10.3	42
39	Coal tar pitch derived N-doped porous carbon nanosheets by the in-situ formed g-C <sub>3</sub> N <sub>4</sub> as a template for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018, 283, 132-140.	5.2	92
40	N-doped porous carbon anchoring on carbon nanotubes derived from ZIF-8/polypyrrole nanotubes for superior supercapacitor electrodes. <i>Applied Surface Science</i> , 2018, 457, 1018-1024.	6.1	71
41	Cross-Linked Nanohybrid Polymer Electrolytes With POSS Cross-Linker for Solid-State Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2018, 6, 186.	3.6	20
42	A simple, scalable approach for combining carbon dots with hexagonal nanoplates of nickel-based compounds for efficient photocatalytic reduction. <i>Dalton Transactions</i> , 2018, 47, 12694-12701.	3.3	3
43	Highly microporous graphite-like BC <sub>x</sub> O <sub>3x</sub> /C nanospheres for anode materials of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2835-2843.	10.3	25
44	Facile synthesis of polymer monolith functionalized with layered double hydroxide as effective preconcentration materials for fluorescent whitening agents. <i>Microchemical Journal</i> , 2017, 132, 93-99.	4.5	8
45	Lanthanide-doped LaOBr nanocrystals: controlled synthesis, optical spectroscopy and bioimaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4827-4834.	5.8	19
46	Three-dimensional B-doped porous carbon framework anchored with ultras-small PbO/Pb nanocrystals for lithium storage. <i>Ceramics International</i> , 2017, 43, 12442-12451.	4.8	8
47	Fabrication of boron-doped carbon fibers by the decomposition of B <sub>4</sub> C and its excellent rate performance as an anode material for lithium-ion batteries. <i>Solid State Sciences</i> , 2015, 41, 36-42.	3.2	24
48	Multiscale carbon nanosphere-carbon fiber reinforcement for cement-based composites with enhanced high-temperature resistance. <i>Journal of Materials Science</i> , 2015, 50, 2038-2048.	3.7	32
49	Structural evolution of rayon-based carbon fibers induced by doping boron. <i>RSC Advances</i> , 2014, 4, 59150-59156.	3.6	12
50	The structure of MB <sub>2</sub> MCC (MZr, Hf, Ta) multi-phase ceramic coatings on graphite. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2895-2904.	5.7	6
51	Exfoliated graphite as a flexible and conductive support for Si-based Li-ion battery anodes. <i>Carbon</i> , 2014, 72, 38-46.	10.3	71
52	Microstructural evolution and oxidation resistance of polyacrylonitrile-based carbon fibers doped with boron by the decomposition of B <sub>4</sub> C. <i>Carbon</i> , 2013, 56, 296-308.	10.3	71
53	Microstructure and thermal/mechanical properties of short carbon fiber-reinforced natural graphite flake composites with mesophase pitch as the binder. <i>Carbon</i> , 2013, 53, 313-320.	10.3	56
54	The reaction behavior of carbon fibers and TaC at high temperatures. <i>CrystEngComm</i> , 2013, 15, 6928.	2.6	7

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55	A facile route for PbO@C nanocomposites: An electrode candidate for lead-acid batteries with enhanced capacitance. <i>Journal of Power Sources</i> , 2013, 224, 125-131.	7.8	17
56	A sandwich structure graphite block with excellent thermal and mechanical properties reinforced by in-situ grown carbon nanotubes. <i>Carbon</i> , 2013, 51, 427-430.	10.3	23
57	Microstructure and thermophysical properties of B <sub>4</sub> C/graphite composites containing substitutional boron. <i>Carbon</i> , 2013, 52, 10-16.	10.3	32
58	In-Situ Preparation of Boron-Doped Carbons with Ordered Mesopores and Enhanced Electrochemical Properties in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, E177-E182.	2.9	38
59	Fabrication and supercapacitive properties of Fe <sub>2</sub> O <sub>3</sub> @C nanocomposites. <i>Materials Letters</i> , 2012, 80, 121-123.	2.6	18
60	Preparation and Electrochemical Properties of Pt@C Nanocomposites. <i>Chemistry Letters</i> , 2009, 38, 260-261.	1.3	1