

Hongbing Zhan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,283
citations

26
h-index

45
g-index

88
ext. papers

2,957
ext. citations

8.9
avg, IF

5.65
L-index

#	Paper	IF	Citations
86	Carbon-coated MoS ₂ nanocables for efficient sodium-ion storage in non-aqueous dual-ion batteries.. <i>Nature Communications</i> , 2022 , 13, 663	17.4	4
85	Self-supported VN arrays coupled with N-doped carbon nanotubes embedded with Co nanoparticles as a multifunctional sulfur host for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022 , 430, 132931	14.7	6
84	Novel Binary Ni-Based Mixed Metal-Organic Framework Nanosheets Materials and Their High Optical Power Limiting.. <i>ACS Omega</i> , 2022 , 7, 10429-10437	3.9	
83	Optimizing CO ₂ capture and separation in pyrene derived covalent triazine frameworks. <i>European Polymer Journal</i> , 2022 , 171, 111215	5.2	0
82	Ultrathin EMnO ₂ nanosheets branched onto N-doped carbon nanotubes as binder-free cathode electrodes for aqueous zinc-ion batteries with a high areal capacity. <i>Journal of Alloys and Compounds</i> , 2022 , 913, 165124	5.7	0
81	Layer-Tunable Nonlinear Optical Characteristics and Photocarrier Dynamics of 2D PdSe in Broadband Spectra. <i>Small</i> , 2021 , 17, e2103938	11	8
80	Novel core-substituted naphthalene diimide-based conjugated polymers for electrochromic applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16959-16965	7.1	0
79	Manipulating the Position of Triplet Chromophores To Achieve a Dynamic Photoactivated Ultralong Organic Phosphorescence Effect. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22848-22855	3.8	0
78	Novel One-Dimensional Covalent Organic Framework as a H Fluorescent Sensor in Acidic Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1145-1151	9.5	17
77	Switchable two-dimensional electrides: A first-principles study. <i>Physical Review B</i> , 2021 , 103,	3.3	6
76	Hierarchical Nanoreactor with Multiple Adsorption and Catalytic Sites for Robust Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 , 15, 6849-6860	16.7	23
75	Engineering Hierarchical Co@N-Doped Carbon Nanotubes/Ni(OH) ₂ Heterostructures on Carbon Cloth Enabling High-Performance Aqueous Nickel-Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22304-22313	9.5	8
74	A Permanent Porous Hydrogen-Bonded Framework with Room-Temperature Phosphorescence. <i>Crystal Growth and Design</i> , 2021 , 21, 3420-3427	3.5	4
73	Facile Synthesis of P-Doped Carbon Nanosheets as Janus Electrodes of Advanced Potassium-Ion Hybrid Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29511-29521	9.5	8
72	A thin film of naphthalenediimide-based metal-organic framework with electrochromic properties. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 73-79	9.3	7
71	Direct Thermal Annealing Synthesis of Ordered Pt Alloy Nanoparticles Coated with a Thin N-Doped Carbon Shell for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021 , 11, 9355-9365	13.1	8
70	Rapid and Large-Scale Quality Assessment of Two-Dimensional MoS ₂ Using Sulfur Particles with Optical Visualization. <i>Nano Letters</i> , 2021 , 21, 1260-1266	11.5	4

69	Construction of molybdenum vanadium oxide/nitride hybrid nanoplate arrays for aqueous zinc-ion batteries and reliable insights into the reaction mechanism. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21313-21322	13	1
68	Structure, crystallization, and performances of alkaline-earth boroaluminosilicate sealing glasses for SOFCs. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2560-2570	3.8	0
67	Fabricating novel high-performance thin-film composite forward osmosis membrane with designed sulfonated covalent organic frameworks as interlayer. <i>Journal of Membrane Science</i> , 2021 , 635, 119476	9.6	4
66	An anthracene based conjugated triazine framework as a luminescent probe for selective sensing of p-nitroaniline and Fe(III) ions. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6568-6574	7.8	6
65	Hierarchical Multicavity Nitrogen-Doped Carbon Nanospheres as Efficient Polyselenide Reservoir for Fast and Long-Life Sodium-Selenium Batteries. <i>Small</i> , 2020 , 16, e2005534	11	14
64	Pd Nanoclusters Supported by Amine-Functionalized Covalent Organic Frameworks for Benzyl Alcohol Oxidation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6416-6422	5.6	13
63	Hierarchical porous carbon nanofibers for compatible anode and cathode of potassium-ion hybrid capacitor. <i>Energy and Environmental Science</i> , 2020 , 13, 2431-2440	35.4	129
62	Hydrazone-Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visible-Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , 2020 , 26, 7358-7364	4.8	12
61	Diversified AIE and mechanochromic luminescence based on carbazole derivative decorated dicyanovinyl groups: effects of substitution sites and molecular packing. <i>CrystEngComm</i> , 2020 , 22, 2166-2172	3.3	6
60	A lightweight and low-cost electrode for lithium-ion batteries derived from paper towel supported MOF arrays. <i>Chemical Communications</i> , 2020 , 56, 5847-5850	5.8	5
59	Crystal structure of 3,7-dimethyl-1-(5-oxohexyl)-3,7-dihydro-1H-purine-2,6-dione 4-hydroxybenzoic acid, C ₂₀ H ₂₄ N ₄ O ₆ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020 , 235, 599-600	0.2	
58	Construction of sugar gourd-like yolk-shell NiMoO ₄ @CoO nanocage arrays for high-performance alkaline battery. <i>Energy Storage Materials</i> , 2020 , 25, 105-113	19.4	26
57	A Tröger's base-derived microporous organic polymers containing pyrene units for selective adsorption of CO ₂ over N ₂ and CH ₄ . <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109870	5.3	11
56	Self-Assembling of Conductive Interlayer-Expanded WS ₂ Nanosheets into 3D Hollow Hierarchical Microflower Bud Hybrids for Fast and Stable Sodium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1907677	15.6	49
55	Tunable Contacts in Graphene/InSe van der Waals Heterostructures. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23699-23706	3.8	10
54	Engineering One-Dimensional Bunched NiMoO ₂ @CoO@NiC Composite for Enhanced Lithium and Sodium Storage Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9018-9027	6.1	10
53	Homogeneous Polymerization of Self-standing Covalent Organic Framework Films with High Performance in Molecular Separation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41942-41949	9.5	11
52	FeS quantum dots embedded in 3D ordered macroporous carbon nanocomposite for high-performance sodium-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1138-1148	13	64

51	Heptazine-based porous polymer for selective CO ₂ sorption and visible light photocatalytic oxidation of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , 2019 , 282, 9-14	5.3	4
50	Elastic Anisotropy and Optic Isotropy in Black Phosphorene/Transition-Metal Trisulfide van der Waals Heterostructures. <i>ACS Omega</i> , 2019 , 4, 4101-4108	3.9	10
49	Impact of new skeletal isomerization in polymer semiconductors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10860-10867	7.1	5
48	Metal-organic framework-engaged synthesis of multicomponent MoO ₂ @CoO-CoMoO ₄ -NC hybrid nanorods as promising anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2019 , 254, 129-132	3.3	5
47	Enhanced photocatalytic performance of black phosphorene by isoelectronic co-dopants. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2369-2378	6.8	5
46	Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-Ion Battery Capacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1901533	21.8	119
45	Potassium-Ion Hybrid Capacitors: Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-Ion Battery Capacitors (Adv. Energy Mater. 42/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970167	21.8	2
44	MOF-Derived Hybrid Hollow Submicrospheres of Nitrogen-Doped Carbon-Encapsulated Bimetallic Ni-Co-S Nanoparticles for Supercapacitors and Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2019 , 58, 3916-3924	5.1	53
43	Dye-Modified Metal-Organic Framework as a Recyclable Luminescent Sensor for Nicotine Determination in Urine Solution and Living Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47253-47258	9.5	24
42	Layer-by-layer stacked nanohybrids of N,S-co-doped carbon film modified atomic MoS ₂ nanosheets for advanced sodium dual-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24271-24280	13	41
41	Resorcinol-Formaldehyde Resin-Coated Prussian Blue Core-Shell Spheres and Their Derived Unique Yolk-Shell FeS@C Spheres for Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2019 , 58, 1330-1338	5.1	32
40	Three-Dimensional Network Architecture with Hybrid Nanocarbon Composites Supporting Few-Layer MoS for Lithium and Sodium Storage. <i>ACS Nano</i> , 2018 , 12, 1592-1602	16.7	228
39	Bimetallic CoNiS nanocrystallites embedded in nitrogen-doped carbon anchored on reduced graphene oxide for high-performance supercapacitors. <i>Nanoscale</i> , 2018 , 10, 4051-4060	7.7	45
38	A series of near-infrared rare earth metal-organic frameworks based on a ketone functionalized aromatic tricarboxylate ligand. <i>Inorganic Chemistry Communication</i> , 2018 , 92, 18-21	3.1	6
37	Reliable and General Route to Inverse Opal Structured Nanohybrids of Carbon-Confined Transition Metal Sulfides Quantum Dots for High-Performance Sodium Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1801452	21.8	91
36	Europium ion post-functionalized zirconium metal-organic frameworks as luminescent probes for effectively sensing hydrazine hydrate. <i>RSC Advances</i> , 2018 , 8, 17471-17476	3.7	20
35	Metal-organic framework derived porous ternary ZnCo ₂ O ₄ nanoplate arrays grown on carbon cloth as binder-free electrodes for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 354, 454-462	14.7	53
34	Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3387-3391	6.4	22

33	In situ confined conductive nickel cobalt sulfoselenide with tailored composition in graphitic carbon hollow structure for energy storage. <i>Chemical Engineering Journal</i> , 2018 , 351, 678-687	14.7	23
32	Partially removing long branched alkyl side chains of regioregular conjugated backbone based diketopyrrolopyrrole polymer for improving field-effect mobility. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13325-13330	7.1	8
31	Regioregular and Regioirregular Poly(selenophene-perylene diimide) Acceptors for Polymer-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32397-32403	9.5	13
30	Construction of MOF-derived hollow Ni-Zn-Co-S nanosword arrays as binder-free electrodes for asymmetric supercapacitors with high energy density. <i>Nanoscale</i> , 2018 , 10, 14171-14181	7.7	95
29	Ultrathin manganese dioxide nanosheets grown on partially unzipped nitrogen-doped carbon nanotubes for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 236-243	5.7	28
28	Interconnected Ni-Co sulfide nanosheet arrays grown on nickel foam as binder-free electrodes for supercapacitors with high areal capacitance. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 205-212	5.7	18
27	Defect-mediated synthesis of Pt nanoparticles uniformly anchored on partially-unzipped carbon nanofibers for electrochemical biosensing. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 304-312	5.7	4
26	Metal-Organic Frameworks Derived Nanocomposites of Mixed-Valent MnOx Nanoparticles In-Situ Grown on Ultrathin Carbon Sheets for High-Performance Supercapacitors and Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 256, 63-72	6.7	26
25	Electric field-modulated data storage in bilayer InSe. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12228-12234	7.4	38
24	Light-Induced Reversible Self-Assembly of Gold Nanoparticles Surface-Immobilized with Coumarin Ligands. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 936-40	16.4	72
23	Carbon nanomaterials for simultaneous determination of dopamine and uric acid in the presence of ascorbic acid: from one-dimensional to the quasi one-dimensional. <i>Electrochimica Acta</i> , 2016 , 190, 40-48	6.7	28
22	Light-Induced Reversible Self-Assembly of Gold Nanoparticles Surface-Immobilized with Coumarin Ligands. <i>Angewandte Chemie</i> , 2016 , 128, 948-952	3.6	19
21	A novel platform based on defect-rich knotted graphene nanotubes for detection of small biomolecules. <i>Electrochimica Acta</i> , 2016 , 217, 47-54	6.7	6
20	Supercapacitors Based on Reduced Graphene Oxide Nanofibers Supported Ni(OH) ₂ Nanoplates with Enhanced Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22977-87	9.5	54
19	A glucose biosensor based on partially unzipped carbon nanotubes. <i>Talanta</i> , 2015 , 141, 66-72	6.2	15
18	Broadband nonlinear optical and optical limiting effects of partially unzipped carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9948-9954	7.1	26
17	Generation of nitrogen-doped photoluminescent carbonaceous nanodots via the hydrothermal treatment of fish scales for the detection of hypochlorite. <i>RSC Advances</i> , 2015 , 5, 44636-44641	3.7	38
16	Carbon Nanotubes with Tailored Density of Electronic States for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25793-803	9.5	10

15	Enhanced nonlinear optical properties of nonzero-bandgap graphene materials in glass matrices. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4121-4125	7.1	52
14	Preparation of SiO ₂ /wood composites by an ultrasonic-assisted sol-gel technique. <i>Cellulose</i> , 2014 , 21, 4393-4403	5.5	47
13	Fundamental electrochemistry of three-dimensional graphene aerogels. <i>RSC Advances</i> , 2014 , 4, 30689	3.7	17
12	Electrochemistry of partially unzipped N-doped carbon nanotubes. <i>Electrochemistry Communications</i> , 2014 , 48, 138-141	5.1	6
11	Electrochemistry of partially unzipped carbon nanotubes. <i>Electrochemistry Communications</i> , 2014 , 45, 95-98	5.1	17
10	Improvement of wood properties by impregnation with TiO ₂ via ultrasonic-assisted sol-gel process. <i>RSC Advances</i> , 2014 , 4, 56355-56360	3.7	20
9	Giant optical limiting effect in Ormosil gel glasses doped with graphene oxide materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6759	7.1	68
8	Water-soluble graphene sheets with large optical limiting response via non-covalent functionalization with polyacetylenes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22624		31
7	Nonlinear optical and optical limiting properties of graphene families. <i>Applied Physics Letters</i> , 2010 , 96, 033107	3.4	222
6	Ultrasound-assisted bulk synthesis of Cds-PVK nanocomposites via RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5702-5707	2.5	18
5	MOF-derived NiCo ₂ S ₄ and carbon hybrid hollow spheres compactly concatenated by electrospun carbon nanofibers as self-standing electrodes for aqueous alkaline Zn batteries. <i>Journal of Materials Chemistry A</i> ,	13	2
4	Significant contribution of single atomic Mn implanted in carbon nanosheets to high-performance sodium-ion hybrid capacitors. <i>Energy and Environmental Science</i> ,	35.4	16
3	Robust Lithium-Sulfur Batteries Enabled by Highly Conductive WSe ₂ -Based Superlattices with Tunable Interlayer Space. <i>Advanced Functional Materials</i> , 2201322	15.6	5
2	Mechanochemical synthesis of nonfullerene small molecular acceptors. <i>Journal of Materials Chemistry C</i> ,	7.1	0
1	High Mass Loading 3D-Printed Sodium-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2203732	15.6	1