

# Hongbing Zhan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6581986/hongbing-zhan-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Three-Dimensional Network Architecture with Hybrid Nanocarbon Composites Supporting Few-Layer MoS for Lithium and Sodium Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 1592-1602	16.7	228
85	Nonlinear optical and optical limiting properties of graphene families. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 033107	3.4	222
84	Hierarchical porous carbon nanofibers for compatible anode and cathode of potassium-ion hybrid capacitor. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2431-2440	35.4	129
83	Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-Ion Battery Capacitors. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901533	21.8	119
82	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> , <b>2018</b> , 10, 14171-14181	7.7	95
81	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> , <b>2018</b> , 8, 1801452	21.8	91
80	Light-Induced Reversible Self-Assembly of Gold Nanoparticles Surface-Immobilized with Coumarin Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 936-40	16.4	72
79	Giant optical limiting effect in Ormosil gel glasses doped with graphene oxide materials. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6759	7.1	68
78	FeS quantum dots embedded in 3D ordered macroporous carbon nanocomposite for high-performance sodium-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1138-1148	13	64
77	Supercapacitors Based on Reduced Graphene Oxide Nanofibers Supported Ni(OH) <sub>2</sub> Nanoplates with Enhanced Electrochemical Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22977-87	9.5	54
76	Metal-organic framework derived porous ternary ZnCo <sub>2</sub> O <sub>4</sub> nanoplate arrays grown on carbon cloth as binder-free electrodes for lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 454-462	14.7	53
75	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> , <b>2019</b> , 58, 3916-3924	5.1	53
74	Enhanced nonlinear optical properties of nonzero-bandgap graphene materials in glass matrices. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4121-4125	7.1	52
73	Self-Assembling of Conductive Interlayer-Expanded WS <sub>2</sub> Nanosheets into 3D Hollow Hierarchical Microflower Bud Hybrids for Fast and Stable Sodium Storage. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907677	15.6	49
72	Preparation of SiO <sub>2</sub> /wood composites by an ultrasonic-assisted sol-gel technique. <i>Cellulose</i> , <b>2014</b> , 21, 4393-4403	5.5	47
71	Bimetallic CoNiS nanocrystallites embedded in nitrogen-doped carbon anchored on reduced graphene oxide for high-performance supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 4051-4060	7.7	45
70	Layer-by-layer stacked nanohybrids of N,S-co-doped carbon film modified atomic MoS <sub>2</sub> nanosheets for advanced sodium dual-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24271-24280	13	41

69	Electric field-modulated data storage in bilayer InSe. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12228-12234	3.4	38
68	Generation of nitrogen-doped photoluminescent carbonaceous nanodots via the hydrothermal treatment of fish scales for the detection of hypochlorite. <i>RSC Advances</i> , <b>2015</b> , 5, 44636-44641	3.7	38
67	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> , <b>2019</b> , 58, 1330-1338	5.1	32
66	Water-soluble graphene sheets with large optical limiting response via non-covalent functionalization with polyacetylenes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22624		31
65	Ultrathin manganese dioxide nanosheets grown on partially unzipped nitrogen-doped carbon nanotubes for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 702, 236-243	5.7	28
64	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> , <b>2016</b> , 190, 40-48	6.7	28
63	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> , <b>2017</b> , 256, 63-72	6.7	26
62	Broadband nonlinear optical and optical limiting effects of partially unzipped carbon nanotubes. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9948-9954	7.1	26
61	Construction of sugar gourd-like yolk-shell NiMoCoS nanocage arrays for high-performance alkaline battery. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 105-113	19.4	26
60	Dye-Modified Metal-Organic Framework as a Recyclable Luminescent Sensor for Nicotine Determination in Urine Solution and Living Cell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47253-47258	9.5	24
59	In situ confined conductive nickel cobalt sulfoselenide with tailored composition in graphitic carbon hollow structure for energy storage. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 678-687	14.7	23
58	Hierarchical Nanoreactor with Multiple Adsorption and Catalytic Sites for Robust Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 6849-6860	16.7	23
57	Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3387-3391	6.4	22
56	Europium ion post-functionalized zirconium metal-organic frameworks as luminescent probes for effectively sensing hydrazine hydrate.. <i>RSC Advances</i> , <b>2018</b> , 8, 17471-17476	3.7	20
55	Improvement of wood properties by impregnation with TiO2 via ultrasonic-assisted sol-gel process. <i>RSC Advances</i> , <b>2014</b> , 4, 56355-56360	3.7	20
54	Light-Induced Reversible Self-Assembly of Gold Nanoparticles Surface-Immobilized with Coumarin Ligands. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 948-952	3.6	19
53	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> , <b>2017</b> , 721, 205-212	5.7	18
52	Ultrasound-assisted bulk synthesis of Cds-PVK nanocomposites via RAFT polymerization. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 5702-5707	2.5	18

51	Fundamental electrochemistry of three-dimensional graphene aerogels. <i>RSC Advances</i> , <b>2014</b> , 4, 30689	3.7	17
50	Electrochemistry of partially unzipped carbon nanotubes. <i>Electrochemistry Communications</i> , <b>2014</b> , 45, 95-98	5.1	17
49	Novel One-Dimensional Covalent Organic Framework as a H Fluorescent Sensor in Acidic Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 1145-1151	9.5	17
48	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
47	A glucose biosensor based on partially unzipped carbon nanotubes. <i>Talanta</i> , <b>2015</b> , 141, 66-72	6.2	15
46	Hierarchical Multicavity Nitrogen-Doped Carbon Nanospheres as Efficient Polyselenide Reservoir for Fast and Long-Life Sodium-Selenium Batteries. <i>Small</i> , <b>2020</b> , 16, e2005534	11	14
45	Pd Nanoclusters Supported by Amine-Functionalized Covalent Organic Frameworks for Benzyl Alcohol Oxidation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6416-6422	5.6	13
44	Regioregular and Regioirregular Poly(selenophene-perylene diimide) Acceptors for Polymer-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32397-32403	9.5	13
43	Hydrazone-Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visible-Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7358-7364	4.8	12
42	A Trigger-Base-Derived Microporous Organic Polymers Containing Pyrene Units for Selective Adsorption of CO <sub>2</sub> over N <sub>2</sub> and CH <sub>4</sub> . <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 294, 109870	5.3	11
41	Homogeneous Polymerization of Self-standing Covalent Organic Framework Films with High Performance in Molecular Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41942-41949	9.5	11
40	Elastic Anisotropy and Optic Isotropy in Black Phosphorene/Transition-Metal Trisulfide van der Waals Heterostructures. <i>ACS Omega</i> , <b>2019</b> , 4, 4101-4108	3.9	10
39	Carbon Nanotubes with Tailored Density of Electronic States for Electrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25793-803	9.5	10
38	Tunable Contacts in Graphene/InSe van der Waals Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 23699-23706	3.8	10
37	Engineering One-Dimensional Bunched NiMoO <sub>2</sub> @Co <sub>2</sub> O <sub>3</sub> /CN Composite for Enhanced Lithium and Sodium Storage Performance. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9018-9027	6.1	10
36	Layer-Tunable Nonlinear Optical Characteristics and Photocurrent Dynamics of 2D PdSe in Broadband Spectra. <i>Small</i> , <b>2021</b> , 17, e2103938	11	8
35	Engineering Hierarchical Co@N-Doped Carbon Nanotubes/Ni(OH) <sub>2</sub> Heterostructures on Carbon Cloth Enabling High-Performance Aqueous Nickel-Zinc Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22304-22313	9.5	8
34	Facile Synthesis of P-Doped Carbon Nanosheets as Janus Electrodes of Advanced Potassium-Ion Hybrid Capacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29511-29521	9.5	8

33	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> , <b>2021</b> , 11, 9355-9365	13.1	8
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> , <b>2018</b> , 6, 13325-13330	7.1	8
31	A thin film of naphthalenediimide-based metal-organic framework with electrochromic properties. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 73-79	9.3	7
30	Diversified AIE and mechanochromic luminescence based on carbazole derivative decorated dicyanovinyl groups: effects of substitution sites and molecular packing. <i>CrystEngComm</i> , <b>2020</b> , 22, 2166-2172	3.3	6
29	A series of near-infrared rare earth metal-organic frameworks based on a ketone functionalized aromatic tricarboxylate ligand. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 92, 18-21	3.1	6
28	Electrochemistry of partially unzipped N-doped carbon nanotubes. <i>Electrochemistry Communications</i> , <b>2014</b> , 48, 138-141	5.1	6
27	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> , <b>2022</b> , 430, 132931	14.7	6
26	Switchable two-dimensional electrides: A first-principles study. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	6
25	A novel platform based on defect-rich knotted graphene nanotubes for detection of small biomolecules. <i>Electrochimica Acta</i> , <b>2016</b> , 217, 47-54	6.7	6
24	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> , <b>2021</b> , 5, 6568-6574	7.8	6
23	A lightweight and low-cost electrode for lithium-ion batteries derived from paper towel supported MOF arrays. <i>Chemical Communications</i> , <b>2020</b> , 56, 5847-5850	5.8	5
22	Impact of new skeletal isomerization in polymer semiconductors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10860-10867	7.1	5
21	Metal-organic framework-engaged synthesis of multicomponent MoO <sub>2</sub> @CoO-CoMoO <sub>4</sub> -NC hybrid nanorods as promising anode materials for lithium-ion batteries. <i>Materials Letters</i> , <b>2019</b> , 254, 129-132	3.3	5
20	Enhanced photocatalytic performance of black phosphorene by isoelectronic co-dopants. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2369-2378	6.8	5
19	Robust Lithium-Sulfur Batteries Enabled by Highly Conductive WSe <sub>2</sub> -Based Superlattices with Tunable Interlayer Space. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 201322	15.6	5
18	Defect-mediated synthesis of Pt nanoparticles uniformly anchored on partially-unzipped carbon nanofibers for electrochemical biosensing. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 304-312	5.7	4
17	Heptazine-based porous polymer for selective CO <sub>2</sub> sorption and visible light photocatalytic oxidation of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 282, 9-14	5.3	4
16	Carbon-coated MoS <sub>2</sub> nanocables for efficient sodium-ion storage in non-aqueous dual-ion batteries. <i>Nature Communications</i> , <b>2022</b> , 13, 663	17.4	4

15	A Permanent Porous Hydrogen-Bonded Framework with Room-Temperature Phosphorescence. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 3420-3427	3.5	4
14	Rapid and Large-Scale Quality Assessment of Two-Dimensional MoS Using Sulfur Particles with Optical Visualization. <i>Nano Letters</i> , <b>2021</b> , 21, 1260-1266	11.5	4
13	Fabricating novel high-performance thin-film composite forward osmosis membrane with designed sulfonated covalent organic frameworks as interlayer. <i>Journal of Membrane Science</i> , <b>2021</b> , 635, 119476	9.6	4
12	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> , <b>2019</b> , 9, 1970167	21.8	2
11	MOF-derived NiCo <sub>2</sub> S <sub>4</sub> 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
10	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> , <b>2021</b> , 9, 21313-21322	13	1
9	High Mass Loading 3D-Printed Sodium-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2203732	15.6	1
8	Novel core-substituted naphthalene diimide-based conjugated polymers for electrochromic applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 16959-16965	7.1	0
7	Manipulating the Position of Triplet Chromophores To Achieve a Dynamic Photoactivated Ultralong Organic Phosphorescence Effect. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 22848-22855	3.8	0
6	Structure, crystallization, and performances of alkaline-earth boroaluminosilicate sealing glasses for SOFCs. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 2560-2570	3.8	0
5	Mechanochemical synthesis of nonfullerene small molecular acceptors. <i>Journal of Materials Chemistry C</i> ,	7.1	0
4	Optimizing CO <sub>2</sub> capture and separation in pyrene derived covalent triazine frameworks. <i>European Polymer Journal</i> , <b>2022</b> , 171, 111215	5.2	0
3	Ultrathin EMnO <sub>2</sub> 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> , <b>2022</b> , 913, 165124	5.7	0
2	Crystal structure of 3,7-dimethyl-1-(5-oxohexyl)-3,7-dihydro-1H-purine-2,6-dione 4-hydroxybenzoic acid, C <sub>20</sub> H <sub>24</sub> N <sub>4</sub> O <sub>6</sub> . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , <b>2020</b> , 235, 599-600	0.2	
1	Novel Binary Ni-Based Mixed Metal-Organic Framework Nanosheets Materials and Their High Optical Power Limiting.. <i>ACS Omega</i> , <b>2022</b> , 7, 10429-10437	3.9	