

# Hongzhi Wang

## List of Publications by Year in descending order

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73  
papers

5,609  
citations

185998

28  
h-index

79541

73  
g-index

73  
all docs

73  
docs citations

73  
times ranked

7187  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018, 118, 9233-9280.	23.0	2,379
2	Graphene-based materials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 3639-3665.	18.7	1,015
3	Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. <i>Materials Horizons</i> , 2017, 4, 1145-1150.	6.4	222
4	MXene-Coated Air-Permeable Pressure-Sensing Fabric for Smart Wear. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46446-46454.	4.0	111
5	A Moisture-Wicking Passive Radiative Cooling Hierarchical Metafabric. <i>ACS Nano</i> , 2022, 16, 2188-2197.	7.3	96
6	Regulation of carbon content in MOF-derived hierarchical-porous NiO@C films for high-performance electrochromism. <i>Materials Horizons</i> , 2019, 6, 571-579.	6.4	90
7	Stable Hydrogel Electrolytes for Flexible and Submarine-Use Zn-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46005-46014.	4.0	87
8	Infrared-Radiation-Enhanced Nanofiber Membrane for Sky Radiative Cooling of the Human Body. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44673-44681.	4.0	82
9	Three-dimensional MnCo <sub>2</sub> O <sub>4</sub> /graphene composites for supercapacitor with promising electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2019, 792, 122-129.	2.8	81
10	Facilitating Interfacial Stability Via Bilayer Heterostructure Solid Electrolyte Toward High-Energy, Safe and Adaptable Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000709.	10.2	79
11	Cobalt nitride nanoparticle coated hollow carbon spheres with nitrogen vacancies as an electrocatalyst for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14498-14505.	5.2	66
12	Modifying Perovskite Films with Polyvinylpyrrolidone for Ambient-Air-Stable Highly Bendable Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35385-35394.	4.0	64
13	Engineering two-dimensional layered nanomaterials for wearable biomedical sensors and power devices. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1944-1986.	3.2	59
14	Hierarchical Composite Solid Electrolyte with High Electrochemical Stability and Interfacial Regulation for Boosting Ultra-Stable Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	57
15	Highly Integrable Thermoelectric Fiber. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33297-33304.	4.0	54
16	Dual-Mechanism and Multimotion Soft Actuators Based on Commercial Plastic Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15122-15128.	4.0	52
17	Grain engineering by ultrasonic substrate vibration post-treatment of wet perovskite films for annealing-free, high performance, and stable perovskite solar cells. <i>Nanoscale</i> , 2018, 10, 8526-8535.	2.8	48
18	Continuously Processed, Long Electrochromic Fibers with Multi-Environmental Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28451-28460.	4.0	48

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19	Prepolymerization-assisted fabrication of an ultrathin immobilized layer to realize a semi-embedded wrinkled AgNW network for a smart electrothermal chromatic display and actuator. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9778-9785.	2.7	46
20	1T-Molybdenum disulfide/reduced graphene oxide hybrid fibers as high strength fibrous electrodes for wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3143-3149.	5.2	45
21	A remote controllable fiber-type near-infrared light-responsive actuator. <i>Chemical Communications</i> , 2017, 53, 11118-11121.	2.2	43
22	Reduced graphene oxide functionalized stretchable and multicolor electrothermal chromatic fibers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11448-11453.	2.7	41
23	Thermochromic Hydrogel-Functionalized Textiles for Synchronous Visual Monitoring of On-Demand <i>In Vitro</i> Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51225-51235.	4.0	39
24	Thermally Responsive Photonic Fibers Consisting of Chained Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50844-50851.	4.0	37
25	Template synthesis and characterization of TiO <sub>2</sub> nanotube arrays by the electrodeposition method. <i>Materials Letters</i> , 2013, 93, 319-321.	1.3	34
26	Transparent Metal-Organic Framework-Based Gel Electrolytes for Generalized Assembly of Quasi-Solid-State Electrochromic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42955-42961.	4.0	32
27	Metal-Organic Framework-Derived Nickel/Cobalt-Based Nanohybrids for Sensing Non-Enzymatic Glucose. <i>ChemElectroChem</i> , 2020, 7, 4446-4452.	1.7	30
28	Microstructure and magnetic properties of electrodeposited Co/Cu multilayer nanowire arrays. <i>Materials Letters</i> , 2011, 65, 1562-1564.	1.3	29
29	Sodium dodecyl sulfate-assisted synthesis of flower-like NiCo <sub>2</sub> O <sub>4</sub> microspheres with large specific surface area for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 744, 187-195.	2.8	29
30	Enhanced immunofluorescence detection of a protein marker using a PAA modified ZnO nanorod array-based microfluidic device. <i>Nanoscale</i> , 2018, 10, 17663-17670.	2.8	28
31	One-pot hydrothermal synthesis of flower-like Ni(OH) <sub>2</sub> encapsulated by reduced graphene oxide for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 711, 643-651.	2.8	26
32	A kirigami-inspired island-chain design for wearable moistureproof perovskite solar cells with high stretchability and performance stability. <i>Nanoscale</i> , 2020, 12, 3646-3656.	2.8	26
33	Design and Synthesis of Ternary Graphene/Polyaniline/Co <sub>3</sub> O <sub>4</sub> Hierarchical Nanocomposites for Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2017, 12, 3721-3731.	0.5	23
34	Antisolvent-Derived Intermediate Phases for Low-Temperature Flexible Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6477-6486.	2.5	23
35	Urea-assisted synthesis of amorphous molybdenum sulfide on P-doped carbon nanotubes for enhanced hydrogen evolution. <i>Journal of Materials Science</i> , 2018, 53, 8951-8962.	1.7	22
36	A high-performance electrocatalyst of CoMoP@NF nanosheet arrays for hydrogen evolution in alkaline solution. <i>Journal of Materials Science</i> , 2019, 54, 11585-11595.	1.7	20

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37	High capacitance properties of electrodeposited PANI-Ag nanocable arrays. <i>Materials Letters</i> , 2012, 86, 77-79.	1.3	19
38	A strong and flexible electronic vessel for real-time monitoring of temperature, motions and flow. <i>Nanoscale</i> , 2017, 9, 17821-17828.	2.8	19
39	A flexible metallic actuator using reduced graphene oxide as a multifunctional component. <i>Nanoscale</i> , 2017, 9, 12963-12968.	2.8	18
40	High Volumetric Energy Density Asymmetric Fibrous Supercapacitors with Coaxial Structure Based on Graphene/MnO <sub>2</sub> Hybrid Fibers. <i>ChemElectroChem</i> , 2020, 7, 4641-4648.	1.7	18
41	The synthesis and application of TiO <sub>2</sub> microspheres as scattering layer in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7356-7363.	1.1	16
42	Highly Aligned Molybdenum Trioxide Nanobelts for Flexible Thin-Film Transistors and Supercapacitors: Macroscopic Assembly and Anisotropic Electrical Properties. <i>ACS Applied Nano Materials</i> , 2019, 2, 1466-1471.	2.4	14
43	Scalable fluid-spinning nanowire-based inorganic semiconductor yarns for electrochromic actuators. <i>Materials Horizons</i> , 2021, 8, 1711-1721.	6.4	14
44	Synthesis and electrochemical performance of Co <sub>3</sub> O <sub>4</sub> /graphene. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 650-655.	1.3	13
45	Synthesis and characterization of CdTe nanoparticle-sensitized TiO <sub>2</sub> nanotube arrays for photocatalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9505-9513.	1.1	13
46	Solvatochromic structural color fabrics with favorable wearability properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4855-4862.	2.7	13
47	Multifunctional Mechanical Sensing Electronic Device Based on Triboelectric Anisotropic Crumpled Nanofibrous Mats. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55481-55488.	4.0	13
48	Highly efficient walking perovskite solar cells based on thermomechanical polymer films. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26154-26161.	5.2	12
49	CoP@NRGO composite as a high-efficiency water electrolysis catalyst for hydrogen generation. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121596.	1.4	12
50	Microstructural origin of selective water oxidation to hydrogen peroxide at low overpotentials: a study on Mn-alloyed TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2021, 9, 18498-18505.	5.2	12
51	Preparation and Characterization of Submicron Star-Like ZnO as Light Scattering Centers for Combination with ZnO Nanoparticles for Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2019, 48, 4895-4901.	1.0	11
52	Synthesis of NiCo <sub>2</sub> O <sub>4</sub> Nanoneedles on rGO for Asymmetric Supercapacitors. <i>Journal of Electronic Materials</i> , 2021, 50, 4196-4206.	1.0	11
53	CNT anchored by NiCo <sub>2</sub> O <sub>4</sub> nanoparticles with hybrid structure for ultrahigh-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5948-5957.	1.1	9
54	A nano-spherical structure Ni <sub>3</sub> S <sub>2</sub> /Ni(OH) <sub>2</sub> electrocatalyst prepared by one-step fast electrodeposition for efficient and durable water splitting. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14916-14929.	3.8	9

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55	Effect of Nanowire Diameter and Period Number on Magnetic Properties and CPP-GMR of Ni-Fe/Cu/Co/Cu Multilayer Nanowire Arrays. <i>Journal of the Electrochemical Society</i> , 2014, 161, D176-D180.	1.3	8
56	Synthesis and magnetic properties of Ni-Fe/Cu/Co/Cu multilayer nanowire arrays. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2520-2524.	1.1	8
57	Template synthesis and characterization of Cu <sub>2</sub> O/TiO <sub>2</sub> coaxial nanocable for photocatalysis. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 846-850.	1.3	8
58	Capillary force driven printing of asymmetric Na-ion micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22083-22089.	5.2	8
59	Quasi-monodispersed anatase TiO <sub>2</sub> submicrospheres as current-contributed scattering particles for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 204, 227-234.	2.6	7
60	Effect of heat treatment on properties of Ni-Sn-P coatings. <i>Surface Engineering</i> , 2018, 34, 468-474.	1.1	7
61	One-pot hydrothermal synthesis of novel NiCo <sub>2</sub> O <sub>4</sub> /reduced graphene oxide composites for supercapacitors. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 638-642.	1.3	6
62	Field emission properties of electrodeposited cobalt nanowire arrays grown in anodic aluminum oxide. <i>Materials Letters</i> , 2011, 65, 44-45.	1.3	5
63	Effect of sub-layer thickness on magnetic and giant magnetoresistance properties of Ni-Fe/Cu/Co/Cu multilayered nanowire arrays. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1231-1235.	1.7	5
64	Electrodeposition of CdSe/TiO <sub>2</sub> Coaxial Nanocables for Enhanced Photocatalytic Performance and H <sub>2</sub> Evolution in Visible Light. <i>Journal of the Electrochemical Society</i> , 2018, 165, D160-D166.	1.3	5
65	A sinusoidal alternating output of a triboelectric nanogenerator array with asymmetric-layer-based units. <i>Nanoscale</i> , 2018, 10, 13730-13736.	2.8	5
66	Template synthesis and characterization of CdS/TiO <sub>2</sub> coaxial nanocables for photocatalysis in visible light. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10754-10764.	1.1	5
67	Enhancement of photoelectric conversion efficiency with sulfur-doped g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanoparticles composites in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9861-9871.	1.1	5
68	A non-enzymatic glucose sensor based on Ni/PANI coaxial nanowire arrays. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7751-7764.	1.1	5
69	Oriented attachment growth of monocrystalline cuprous oxide nanowires in pure water. <i>Nanoscale Advances</i> , 2019, 1, 2174-2179.	2.2	3
70	Highly fluorinated polyimide gate dielectric for fully transparent aqueous precursor derived In-Zn oxide thin-film transistors. <i>Journal of Materials Science</i> , 2020, 55, 15919-15929.	1.7	3
71	Self-Assembled MoO <sub>x</sub> @Co <sub>2</sub> P <sub>4</sub> O <sub>12</sub> as an Ideal Bifunctional Catalyst for Overall Water Splitting. <i>Journal of the Electrochemical Society</i> , 2021, 168, 104512.	1.3	3
72	Redox-Active Ni(II) Nodes Induced Electrochromism in a Two-Dimensional Conductive Metal-Organic Framework. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2915-2922.	2.0	3

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73	Electrochemical Preparation and Characterization of [NiFe/Cu/Co/Cu] <sub>n</sub> Multilayered Nanowires. Acta Chimica Sinica, 2012, 70, 1.	0.5	1