

Mingjun Hu

List of Publications by Year in descending order

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79
papers

3,749
citations

87888

38
h-index

128289

60
g-index

79
all docs

79
docs citations

79
times ranked

5325
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Transparent PES/Silver Nanowires/PET Sandwich-Structured Film for High-Efficiency Electromagnetic Interference Shielding. <i>Langmuir</i> , 2012, 28, 7101-7106.	3.5	257
2	Flexible, superhydrophobic and highly conductive composite based on non-woven polypropylene fabric for electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2019, 364, 493-502.	12.7	200
3	A highly stretchable, super-hydrophobic strain sensor based on polydopamine and graphene reinforced nanofiber composite for human motion monitoring. <i>Composites Part B: Engineering</i> , 2020, 181, 107580.	12.0	182
4	High Yield Synthesis of Bracelet-like Hydrophilic Ni ²⁺ /Co Magnetic Alloy Flux-Closure Nanorings. <i>Journal of the American Chemical Society</i> , 2008, 130, 11606-11607.	13.7	164
5	3D printed porous carbon anode for enhanced power generation in microbial fuel cell. <i>Nano Energy</i> , 2018, 44, 174-180.	16.0	151
6	Hydrophilic Co@Au Yolk/Shell Nanospheres: Synthesis, Assembly, and Application to Gene Delivery. <i>Advanced Materials</i> , 2010, 22, 1407-1411.	21.0	141
7	Magnetic field-induced solvothermal synthesis of one-dimensional assemblies of Ni-Co alloy microstructures. <i>Nano Research</i> , 2008, 1, 303-313.	10.4	108
8	Superhydrophobic and multi-responsive fabric composite with excellent electro-photo-thermal effect and electromagnetic interference shielding performance. <i>Chemical Engineering Journal</i> , 2020, 391, 123537.	12.7	99
9	High-yield synthesis of graphene quantum dots with strong green photoluminescence. <i>RSC Advances</i> , 2014, 4, 50141-50144.	3.6	98
10	Superhydrophobic and superelastic conductive rubber composite for wearable strain sensors with ultrahigh sensitivity and excellent anti-corrosion property. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24523-24533.	10.3	89
11	Recent advancements in metal organic framework based electrodes for supercapacitors. <i>Science China Materials</i> , 2018, 61, 159-184.	6.3	88
12	Graphite-Nanoplatelet-Decorated Polymer Nanofiber with Improved Thermal, Electrical, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7758-7764.	8.0	78
13	Direct Pen Writing of Adhesive Particle-Free Ultrahigh Silver Salt-Loaded Composite Ink for Stretchable Circuits. <i>ACS Nano</i> , 2016, 10, 396-404.	14.6	78
14	Stretchable, electrically conductive and superhydrophobic/superoleophilic nanofibrous membrane with a hierarchical structure for efficient oil/water separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 243-252.	5.8	68
15	In situ screen-printed BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3-δ} electrolyte-based protonic ceramic membrane fuel cells with layered SmBaCo ₂ O _{5+x} cathode. <i>Journal of Power Sources</i> , 2009, 186, 446-449.	7.8	67
16	Hierarchical self-assembled Bi ₂ S ₃ hollow nanotubes coated with sulfur-doped amorphous carbon as advanced anode materials for lithium ion batteries. <i>Nanoscale</i> , 2018, 10, 13343-13350.	5.6	67
17	Solvothermal Synthesis of Monodisperse LiFePO ₄ Micro Hollow Spheres as High Performance Cathode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8961-8967.	8.0	62
18	Preparation, morphology, and mechanical properties of carbon nanotube anchored polymer nanofiber composite. <i>Composites Science and Technology</i> , 2014, 92, 95-102.	7.8	60

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19	Thermal evaporation-induced anhydrous synthesis of Fe ₃ O ₄ @graphene composite with enhanced rate performance and cyclic stability for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7174.	2.8	58
20	Magnetic Alloy Nanorings Loaded with Gold Nanoparticles: Synthesis and Applications as Multimodal Imaging Contrast Agents. <i>Advanced Functional Materials</i> , 2010, 20, 3701-3706.	14.9	54
21	Facile preparation of hierarchically porous polymer microspheres for superhydrophobic coating. <i>Nanoscale</i> , 2014, 6, 1056-1063.	5.6	54
22	New Insights into the Electrochemistry of Carbonyl- and Amino-Containing Polymers for Rechargeable Zinc-Organic Batteries. <i>ACS Energy Letters</i> , 2021, 6, 1141-1147.	17.4	54
23	A MoS ₂ @SnS heterostructure for sodium-ion storage with enhanced kinetics. <i>Nanoscale</i> , 2020, 12, 14689-14698.	5.6	53
24	Polymer-pyrolysis assisted synthesis of vanadium trioxide and carbon nanocomposites as high performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 261, 184-187.	7.8	52
25	Solvothermal synthesis of nano-LiMnPO ₄ from Li ₃ PO ₄ rod-like precursor: reaction mechanism and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 25402.	6.7	51
26	Rapid controllable high-concentration synthesis and mutual attachment of silver nanowires. <i>RSC Advances</i> , 2012, 2, 2055.	3.6	51
27	A new strategy for the fabrication of a flexible and highly sensitive capacitive pressure sensor. <i>Microsystems and Nanoengineering</i> , 2021, 7, 100.	7.0	48
28	Stable, easily sintered BaCe _{0.5} Zr _{0.3} Y _{0.16} Zn _{0.04} O _{3-δ} electrolyte-based protonic ceramic membrane fuel cells with Ba _{0.5} Sr _{0.5} Zn _{0.2} Fe _{0.8} O _{3-δ} perovskite cathode. <i>Journal of Power Sources</i> , 2008, 183, 479-484.	7.8	46
29	A highly sensitive piezoresistive sensor based on MXenes and polyvinyl butyral with a wide detection limit and low power consumption. <i>Nanoscale</i> , 2020, 12, 17715-17724.	5.6	46
30	A facile way of fabricating a flexible and conductive cotton fabric. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1320-1325.	5.5	44
31	Two-dimensional materials: Emerging toolkit for construction of ultrathin high-efficiency microwave shield and absorber. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	44
32	Scalable synthesis of Fe ₃ O ₄ nanoparticles anchored on graphene as a high-performance anode for lithium ion batteries. <i>Journal of Solid State Chemistry</i> , 2013, 201, 330-337.	2.9	43
33	Electrically conductive polymer nanofiber composite with an ultralow percolation threshold for chemical vapour sensing. <i>Composites Science and Technology</i> , 2018, 161, 135-142.	7.8	43
34	Ultrasonication induced adsorption of carbon nanotubes onto electrospun nanofibers with improved thermal and electrical performances. <i>Journal of Materials Chemistry</i> , 2012, 22, 10867.	6.7	40
35	Controllable morphology and wettability of polymer microspheres prepared by nonsolvent assisted electro spraying. <i>Polymer</i> , 2014, 55, 2913-2920.	3.8	40
36	Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019, 2, 1457-1465.	5.0	40

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37	A super-hydrophobic and electrically conductive nanofibrous membrane for a chemical vapor sensor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10036-10047.	10.3	39
38	Ultrafast Transient Spectra and Dynamics of MXene ($\text{Ti}_3\text{C}_2\text{T}_x$) in Response to Light Excitations of Various Wavelengths. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6441-6447.	3.1	39
39	Evaporation-induced synthesis of carbon-supported Fe_3O_4 nanocomposites as anode material for lithium-ion batteries. <i>CrystEngComm</i> , 2013, 15, 1324.	2.6	38
40	Laser-Cutting Fabrication of MXene-Based Flexible Micro-Supercapacitors with High Areal Capacitance. <i>ChemNanoMat</i> , 2019, 5, 658-665.	2.8	38
41	Rational selection of small aromatic molecules to functionalize graphene for enhancing capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7566-7572.	10.3	37
42	Flexible Fabrication of Flexible Electronics: A General Laser Ablation Strategy for Robust Large-Area Copper-Based Electronics. <i>Advanced Electronic Materials</i> , 2019, 5, 1900365.	5.1	37
43	Plasmonic Light Illumination Creates a Channel To Achieve Fast Degradation of $\text{Ti}_3\text{C}_2\text{T}_x$ Nanosheets. <i>Inorganic Chemistry</i> , 2019, 58, 7285-7294.	4.0	37
44	SU-8-Induced Strong Bonding of Polymer Ligands to Flexible Substrates via in Situ Cross-Linked Reaction for Improved Surface Metallization and Fast Fabrication of High-Quality Flexible Circuits. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4280-4286.	8.0	36
45	Application of 3D Printed Porous Copper Anode in Microbial Fuel Cells. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	35
46	Boosting the Capacitance of an Aqueous Zinc-Ion Hybrid Energy Storage Device by Using Poly(3,3'-dihydroxybenzidine)-Modified Nanoporous Carbon Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14195-14202.	6.7	33
47	Preparation of high-performance MXene/PVA-based flexible pressure sensors with adjustable sensitivity and sensing range. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113458.	4.1	33
48	Hydrogen Bond Interaction Promotes Flash Energy Transport at MXene-Solvent Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10306-10314.	3.1	32
49	Long-Lived Color-Tunable Room-Temperature Phosphorescence of Boron-Doped Carbon Dots. <i>Langmuir</i> , 2022, 38, 2287-2293.	3.5	29
50	Achieving High Capacitance of Paper-Like Graphene Films by Adsorbing Molecules from Hydrolyzed Polyimide. <i>Small</i> , 2018, 14, 1702809.	10.0	28
51	Donor-acceptor covalent organic framework hollow microspheres with a hierarchical pore structure for visible-light-driven H_2 evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11010-11018.	10.3	28
52	Benzyl alcohol-based synthesis of oxide nanoparticles: the perspective of $\text{S}_\text{N}1$ reaction mechanism. <i>Dalton Transactions</i> , 2013, 42, 9777.	3.3	23
53	A Low-Loss Design of Bandpass Filter at the Terahertz Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 573-575.	3.2	23
54	In Situ Nitrogen-Doped Covalent Triazine-Based Multiporous Cross-Linking Framework for High-Performance Energy Storage. <i>Advanced Electronic Materials</i> , 2020, 6, 2000253.	5.1	23

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55	Polydimethylsiloxane nanocomposite filled with 3D carbon nanosheet frameworks for tensile and compressive strain sensors. <i>Composites Part B: Engineering</i> , 2019, 168, 175-182.	12.0	21
56	A laser printing based approach for printed electronics. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	19
57	Localization of Printed Chipless RFID in 3-D Space. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 373-375.	3.2	19
58	Ultrafast Flash Energy Conductance at MXene-Surfactant Interface and Its Molecular Origins. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901461.	3.7	17
59	Solvent-transfer assisted photolithography of high-density and high-aspect-ratio superhydrophobic micropillar arrays. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025005.	2.6	16
60	Water based fluidic radio frequency metamaterials. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	16
61	Morphological evolution from porous nanofibers to rice like nanobeans. <i>Materials Letters</i> , 2014, 128, 110-113.	2.6	13
62	High-performance asymmetric micro-supercapacitors based on electrodeposited MnO ₂ and N-doped graphene. <i>Nanotechnology</i> , 2019, 30, 235403.	2.6	13
63	Surface Oxidation Modulates the Interfacial and Lateral Thermal Migration of MXene (Ti ₃ C ₂ T _x) Flakes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9521-9527.	4.6	13
64	Triethylene Glycol Assisted Synthesis of Pure Tavorite LiFeSO ₄ F Cathode Material for Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3072-A3076.	2.9	12
65	Magnetic properties and crystallization behavior of nanocrystalline FeSiBPCuAl alloys. <i>Science China Technological Sciences</i> , 2010, 53, 1590-1593.	4.0	11
66	Soluble salt-driven matrix swelling of a block copolymer for rapid fabrication of a conductive elastomer toward highly stretchable electronics. <i>Materials and Design</i> , 2016, 100, 263-270.	7.0	11
67	Ag Nanowire-Based Stretchable Electrodes and Wearable Sensor Arrays. <i>ACS Applied Nano Materials</i> , 2021, 4, 12726-12736.	5.0	10
68	Vertical-external-cavity surface-emitting lasers and quantum dot lasers. <i>Frontiers of Optoelectronics</i> , 2012, 5, 157-170.	3.7	9
69	Multilayer Graphene/PDMS Composite Gradient Materials for High-Efficiency Photoresponse Actuators. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	9
70	Facile Fabrication of Hybrid Copper-Fiber Conductive Features with Enhanced Durability and Ultralow Sheet Resistance for Low-Cost High-Performance Paper-Based Electronics. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700062.	5.3	7
71	Compressible Metalized Soft Magnetic Sponges with Tailorable Electrical and Magnetic Properties. <i>ChemNanoMat</i> , 2020, 6, 316-325.	2.8	7
72	E1 reaction-induced synthesis of hydrophilic oxide nanoparticles in a non-hydrophilic solvent. <i>Nanoscale</i> , 2012, 4, 6284.	5.6	6

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73	Enhanced dielectric permittivity and suppressed electrical conductivity in polyvinylidene fluoride nanocomposites filled with 4,4'-oxydiphenol-functionalized graphene. <i>Nanotechnology</i> , 2019, 30, 265705.	2.6	6
74	In-situ monitoring on dynamics of solute transport in polymer films. <i>Polymer</i> , 2015, 58, 67-75.	3.8	3
75	Gradually Anchoring N and Fe, Zn Atoms on Monodispersed Carbon Nanospheres: Their Contribution to the Oxygen Reduction Reaction under Analogous Structure. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7513-7522.	3.7	2
76	Experimental Study on Tunable Electromagnetic Shielding by Microlattice Materials with Organized Microstructures. <i>Advanced Engineering Materials</i> , 2018, 20, 1700823.	3.5	1
77	Design and Experiment of 340-GHz Band Pass Filter With Low Insertion Loss. <i>IEEE Access</i> , 2019, 7, 27196-27206.	4.2	1
78	Fabrication of Polymer@Metal Core-Shell $\pm 45^\circ$ Polarization Diversity Dipoles by Mussel-Inspired Surface Chemistry on 3-D Printed Objects. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021, 11, 892-898.	2.5	1
79	Energy transfer dynamics from individual semiconductor nanoantennae to dye molecules with implication to light-harvesting nanosystems. , 2018, , .		0