

Mingjun Hu

List of Publications by Year in descending order

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79
papers

3,749
citations

87723

38
h-index

128067

60
g-index

79
all docs

79
docs citations

79
times ranked

5325
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilayer Graphene/PDMS Composite Gradient Materials for High-Efficiency Photoresponse Actuators. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	9
2	Long-Lived Color-Tunable Room-Temperature Phosphorescence of Boron-Doped Carbon Dots. <i>Langmuir</i> , 2022, 38, 2287-2293.	1.6	29
3	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.	5.2	28
4	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.	1.8	2
5	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.	2.0	33
6	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.	8.8	54
7	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.	1.4	1
8	A new strategy for the fabrication of a flexible and highly sensitive capacitive pressure sensor. <i>Microsystems and Nanoengineering</i> , 2021, 7, 100.	3.4	48
9	Ag Nanowire-Based Stretchable Electrodes and Wearable Sensor Arrays. <i>ACS Applied Nano Materials</i> , 2021, 4, 12726-12736.	2.4	10
10	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.	5.9	182
11	Compressible Metalized Soft Magnetic Sponges with Tailorable Electrical and Magnetic Properties. <i>ChemNanoMat</i> , 2020, 6, 316-325.	1.5	7
12	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.	6.6	99
13	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.	2.1	13
14	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.	2.8	46
15	A MoS ₂ @SnS heterostructure for sodium-ion storage with enhanced kinetics. <i>Nanoscale</i> , 2020, 12, 14689-14698.	2.8	53
16	In Situ Nitrogen-Doped Covalent Triazine-Based Multiporous Cross-Linking Framework for High-Performance Energy Storage. <i>Advanced Electronic Materials</i> , 2020, 6, 2000253.	2.6	23
17	Ultrafast Transient Spectra and Dynamics of MXene (Ti ₃ C ₂ T _x) in Response to Light Excitations of Various Wavelengths. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6441-6447.	1.5	39
18	Hydrogen Bond Interaction Promotes Flash Energy Transport at MXene-Solvent Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10306-10314.	1.5	32

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19	Design and Experiment of 340-GHz Band Pass Filter With Low Insertion Loss. IEEE Access, 2019, 7, 27196-27206.	2.6	1
20	Flexible Fabrication of Flexible Electronics: A General Laser Ablation Strategy for Robust Large-Area Copper-Based Electronics. Advanced Electronic Materials, 2019, 5, 1900365.	2.6	37
21	Boosting the Capacitance of an Aqueous Zinc-Ion Hybrid Energy Storage Device by Using Poly(3,3'-dihydroxybenzidine)-Modified Nanoporous Carbon Cathode. ACS Sustainable Chemistry and Engineering, 2019, 7, 14195-14202.	3.2	33
22	Ultrafast Flash Energy Conductance at MXene-Surfactant Interface and Its Molecular Origins. Advanced Materials Interfaces, 2019, 6, 1901461.	1.9	17
23	Flexible, superhydrophobic and highly conductive composite based on non-woven polypropylene fabric for electromagnetic interference shielding. Chemical Engineering Journal, 2019, 364, 493-502.	6.6	200
24	Plasmonic Light Illumination Creates a Channel To Achieve Fast Degradation of $\text{Ti}_3\text{C}_2\text{T}_x$ Nanosheets. Inorganic Chemistry, 2019, 58, 7285-7294.	1.9	37
25	Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 1457-1465.	2.4	40
26	Enhanced dielectric permittivity and suppressed electrical conductivity in polyvinylidene fluoride nanocomposites filled with 4,4'-oxydiphenol-functionalized graphene. Nanotechnology, 2019, 30, 265705.	1.3	6
27	High-performance asymmetric micro-supercapacitors based on electrodeposited MnO_2 and N-doped graphene. Nanotechnology, 2019, 30, 235403.	1.3	13
28	Laser-Cutting Fabrication of MXene-Based Flexible Micro-Supercapacitors with High Areal Capacitance. ChemNanoMat, 2019, 5, 658-665.	1.5	38
29	Polydimethylsiloxane nanocomposite filled with 3D carbon nanosheet frameworks for tensile and compressive strain sensors. Composites Part B: Engineering, 2019, 168, 175-182.	5.9	21
30	Stretchable, electrically conductive and superhydrophobic/superoleophilic nanofibrous membrane with a hierarchical structure for efficient oil/water separation. Journal of Industrial and Engineering Chemistry, 2019, 70, 243-252.	2.9	68
31	A super-hydrophobic and electrically conductive nanofibrous membrane for a chemical vapor sensor. Journal of Materials Chemistry A, 2018, 6, 10036-10047.	5.2	39
32	Electrically conductive polymer nanofiber composite with an ultralow percolation threshold for chemical vapour sensing. Composites Science and Technology, 2018, 161, 135-142.	3.8	43
33	Recent advancements in metal organic framework based electrodes for supercapacitors. Science China Materials, 2018, 61, 159-184.	3.5	88
34	Achieving High Capacitance of Paper-Like Graphene Films by Adsorbing Molecules from Hydrolyzed Polyimide. Small, 2018, 14, 1702809.	5.2	28
35	Rational selection of small aromatic molecules to functionalize graphene for enhancing capacitive energy storage. Journal of Materials Chemistry A, 2018, 6, 7566-7572.	5.2	37
36	3D printed porous carbon anode for enhanced power generation in microbial fuel cell. Nano Energy, 2018, 44, 174-180.	8.2	151

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37	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.	5.2	89
38	Experimental Study on Tunable Electromagnetic Shielding by Microlattice Materials with Organized Microstructures. <i>Advanced Engineering Materials</i> , 2018, 20, 1700823.	1.6	1
39	Two-dimensional materials: Emerging toolkit for construction of ultrathin high-efficiency microwave shield and absorber. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	44
40	Application of 3D Printed Porous Copper Anode in Microbial Fuel Cells. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	35
41	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.	2.8	67
42	A Low-Loss Design of Bandpass Filter at the Terahertz Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 573-575.	2.0	23
43	Energy transfer dynamics from individual semiconductor nanoantennae to dye molecules with implication to light-harvesting nanosystems. , 2018, , .		0
44	Facile Fabrication of Hybrid Copperâ€Fiber Conductive Features with Enhanced Durability and Ultralow Sheet Resistance for Lowâ€Cost Highâ€Performance Paperâ€Based Electronics. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700062.	2.7	7
45	Water based fluidic radio frequency metamaterials. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	16
46	A laser printing based approach for printed electronics. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	19
47	Localization of Printed Chipless RFID in 3-D Space. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 373-375.	2.0	19
48	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.	3.3	11
49	A facile way of fabricating a flexible and conductive cotton fabric. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1320-1325.	2.7	44
50	Direct Pen Writing of Adhesive Particle-Free Ultrahigh Silver Salt-Loaded Composite Ink for Stretchable Circuits. <i>ACS Nano</i> , 2016, 10, 396-404.	7.3	78
51	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.	4.0	36
52	In-situ monitoring on dynamics of solute transport in polymer films. <i>Polymer</i> , 2015, 58, 67-75.	1.8	3
53	Solvent-transfer assisted photolithography of high-density and high-aspect-ratio superhydrophobic micropillar arrays. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025005.	1.5	16
54	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.	4.0	52

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55	Controllable morphology and wettability of polymer microspheres prepared by nonsolvent assisted electrospraying. <i>Polymer</i> , 2014, 55, 2913-2920.	1.8	40
56	Facile preparation of hierarchically porous polymer microspheres for superhydrophobic coating. <i>Nanoscale</i> , 2014, 6, 1056-1063.	2.8	54
57	Preparation, morphology, and mechanical properties of carbon nanotube anchored polymer nanofiber composite. <i>Composites Science and Technology</i> , 2014, 92, 95-102.	3.8	60
58	High-yield synthesis of graphene quantum dots with strong green photoluminescence. <i>RSC Advances</i> , 2014, 4, 50141-50144.	1.7	98
59	Morphological evolution from porous nanofibers to rice like nanobeans. <i>Materials Letters</i> , 2014, 128, 110-113.	1.3	13
60	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.	1.4	43
61	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.	4.0	62
62	Graphite-Nanoplatelet-Decorated Polymer Nanofiber with Improved Thermal, Electrical, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7758-7764.	4.0	78
63	Benzyl alcohol-based synthesis of oxide nanoparticles: the perspective of SN1 reaction mechanism. <i>Dalton Transactions</i> , 2013, 42, 9777.	1.6	23
64	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.	1.3	58
65	Evaporation-induced synthesis of carbon-supported Fe ₃ O ₄ nanocomposites as anode material for lithium-ion batteries. <i>CrystEngComm</i> , 2013, 15, 1324.	1.3	38
66	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.	1.3	12
67	E1 reaction-induced synthesis of hydrophilic oxide nanoparticles in a non-hydrophilic solvent. <i>Nanoscale</i> , 2012, 4, 6284.	2.8	6
68	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
69	Rapid controllable high-concentration synthesis and mutual attachment of silver nanowires. <i>RSC Advances</i> , 2012, 2, 2055.	1.7	51
70	Flexible Transparent PES/Silver Nanowires/PET Sandwich-Structured Film for High-Efficiency Electromagnetic Interference Shielding. <i>Langmuir</i> , 2012, 28, 7101-7106.	1.6	257
71	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
72	Vertical-external-cavity surface-emitting lasers and quantum dot lasers. <i>Frontiers of Optoelectronics</i> , 2012, 5, 157-170.	1.9	9

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73	Magnetic properties and crystallization behavior of nanocrystalline FeSiBPCuAl alloys. <i>Science China Technological Sciences</i> , 2010, 53, 1590-1593.	2.0	11
74	Magnetic Alloy Nanorings Loaded with Gold Nanoparticles: Synthesis and Applications as Multimodal Imaging Contrast Agents. <i>Advanced Functional Materials</i> , 2010, 20, 3701-3706.	7.8	54
75	Hydrophilic Co@Au Yolk/Shell Nanospheres: Synthesis, Assembly, and Application to Gene Delivery. <i>Advanced Materials</i> , 2010, 22, 1407-1411.	11.1	141
76	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.	4.0	67
77	Magnetic field-induced solvothermal synthesis of one-dimensional assemblies of Ni-Co alloy microstructures. <i>Nano Research</i> , 2008, 1, 303-313.	5.8	108
78	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.	4.0	46
79	High Yield Synthesis of Bracelet-like Hydrophilic Ni~Co Magnetic Alloy Flux-Closure Nanorings. <i>Journal of the American Chemical Society</i> , 2008, 130, 11606-11607.	6.6	164