Xianwen Mao

List of Publications by Year in descending order

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26	990	471509 17	552781 26
papers	citations	h-index	g-index

27	27	27	1425
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. Nature Materials, 2019, 18, 1350-1357.	27.5	144
2	Imaging Catalytic Hotspots on Single Plasmonic Nanostructures via Correlated Super-Resolution and Electron Microscopy. ACS Nano, 2018, 12, 5570-5579.	14.6	89
3	Electrospun Carbon Nanofiber Webs with Controlled Density of States for Sensor Applications. Advanced Materials, 2013, 25, 1309-1314.	21.0	78
4	Super-resolution imaging of non-fluorescent reactions via competition. Nature Chemistry, 2019, 11, 687-694.	13.6	78
5	Electrochemically Nanostructured Polyvinylferrocene/Polypyrrole Hybrids with Synergy for Energy Storage. Advanced Functional Materials, 2015, 25, 4803-4813.	14.9	64
6	Ultra-Wide-Range Electrochemical Sensing Using Continuous Electrospun Carbon Nanofibers with High Densities of States. ACS Applied Materials & Interfaces, 2014, 6, 3394-3405.	8.0	61
7	Charge Carrier Activity on Single-Particle Photo(electro)catalysts: Toward Function in Solar Energy Conversion. Journal of the American Chemical Society, 2018, 140, 6729-6740.	13.7	50
8	Polyvinylferrocene for Noncovalent Dispersion and Redox-Controlled Precipitation of Carbon Nanotubes in Nonaqueous Media. Langmuir, 2013, 29, 9626-9634.	3.5	46
9	Metallocene/carbon hybrids prepared by a solution process for supercapacitor applications. Journal of Materials Chemistry A, 2013, 1, 13120.	10.3	38
10	Superhydrophobic, Surfactantâ€doped, Conducting Polymers for Electrochemically Reversible Adsorption of Organic Contaminants. Advanced Functional Materials, 2018, 28, 1801466.	14.9	33
11	Analogy between Enzyme and Nanoparticle Catalysis: A Single-Molecule Perspective. ACS Catalysis, 2019, 9, 1985-1992.	11.2	33
12	Inter-facet junction effects on particulate photoelectrodes. Nature Materials, 2022, 21, 331-337.	27.5	32
13	Electrochemically Responsive Heterogeneous Catalysis for Controlling Reaction Kinetics. Journal of the American Chemical Society, 2015, 137, 1348-1355.	13.7	31
14	Energetically efficient electrochemically tunable affinity separation using multicomponent polymeric nanostructures for water treatment. Energy and Environmental Science, 2018, 11, 2954-2963.	30.8	31
15	Advances in electrospun carbon fiber-based electrochemical sensing platforms for bioanalytical applications. Analytical and Bioanalytical Chemistry, 2016, 408, 1307-1326.	3.7	30
16	Nanoscale cooperative adsorption for materials control. Nature Communications, 2021, 12, 4287.	12.8	26
17	Mechanical stress compromises multicomponent efflux complexes in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25462-25467.	7.1	18
18	An Asymmetric Electrochemical System with Complementary Tunability in Hydrophobicity for Selective Separations of Organics. ACS Central Science, 2019, 5, 1396-1406.	11.3	17

#	Article	IF	Citations
19	Remarkably High Heterogeneous Electron Transfer Activity of Carbon-Nanotube-Supported Reduced Graphene Oxide. Chemistry of Materials, 2016, 28, 7422-7432.	6.7	16
20	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. Chemistry of Materials, 2015, 27, 4574-4585.	6.7	15
21	Enhancing Performance Stability of Electrochemically Active Polymers by Vaporâ€Đeposited Organic Networks. Advanced Functional Materials, 2018, 28, 1706028.	14.9	13
22	Quantifying Photocurrent Loss of a Single Particleâ€“Particle Interface in Nanostructured Photoelectrodes. Nano Letters, 2019, 19, 958-962.	9.1	13
23	Rational design of charge-functional materials: Insights from molecular engineering and operando imaging. MRS Bulletin, 2021, 46, 273-279.	3.5	6
24	Tuning Single-Polymer Growth via Hydrogen Bonding in Conformational Entanglements. ACS Central Science, 2022, 8, 1116-1124.	11.3	4
25	Reviewâ€”Understanding and Controlling Charge Functions in Materials for Electrochemically Mediated Water Treatment. Journal of the Electrochemical Society, 0, , .	2.9	2
26	Bioelectronic Platform to Investigate Charge Transfer between Photoexcited Quantum Dots and Microbial Outer Membranes. ACS Applied Materials & Interfaces, 2022, 14, 15799-15810.	8.0	1