

# Xianwen Mao

## List of Publications by Year in descending order

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26  
papers

990  
citations

471509

17  
h-index

552781

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g-index

27  
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docs citations

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times ranked

1425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioelectronic Platform to Investigate Charge Transfer between Photoexcited Quantum Dots and Microbial Outer Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 15799-15810.	8.0	1
2	Inter-facet junction effects on particulate photoelectrodes. <i>Nature Materials</i> , 2022, 21, 331-337.	27.5	32
3	Tuning Single-Polymer Growth via Hydrogen Bonding in Conformational Entanglements. <i>ACS Central Science</i> , 2022, 8, 1116-1124.	11.3	4
4	Rational design of charge-functional materials: Insights from molecular engineering and operando imaging. <i>MRS Bulletin</i> , 2021, 46, 273-279.	3.5	6
5	Nanoscale cooperative adsorption for materials control. <i>Nature Communications</i> , 2021, 12, 4287.	12.8	26
6	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <i>Nature Materials</i> , 2019, 18, 1350-1357.	27.5	144
7	Super-resolution imaging of non-fluorescent reactions via competition. <i>Nature Chemistry</i> , 2019, 11, 687-694.	13.6	78
8	An Asymmetric Electrochemical System with Complementary Tunability in Hydrophobicity for Selective Separations of Organics. <i>ACS Central Science</i> , 2019, 5, 1396-1406.	11.3	17
9	Analogy between Enzyme and Nanoparticle Catalysis: A Single-Molecule Perspective. <i>ACS Catalysis</i> , 2019, 9, 1985-1992.	11.2	33
10	Mechanical stress compromises multicomponent efflux complexes in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25462-25467.	7.1	18
11	Quantifying Photocurrent Loss of a Single Particle's Particle Interface in Nanostructured Photoelectrodes. <i>Nano Letters</i> , 2019, 19, 958-962.	9.1	13
12	Enhancing Performance Stability of Electrochemically Active Polymers by Vapor-Deposited Organic Networks. <i>Advanced Functional Materials</i> , 2018, 28, 1706028.	14.9	13
13	Superhydrophobic, Surfactant-Doped, Conducting Polymers for Electrochemically Reversible Adsorption of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018, 28, 1801466.	14.9	33
14	Energetically efficient electrochemically tunable affinity separation using multicomponent polymeric nanostructures for water treatment. <i>Energy and Environmental Science</i> , 2018, 11, 2954-2963.	30.8	31
15	Charge Carrier Activity on Single-Particle Photo(electro)catalysts: Toward Function in Solar Energy Conversion. <i>Journal of the American Chemical Society</i> , 2018, 140, 6729-6740.	13.7	50
16	Imaging Catalytic Hotspots on Single Plasmonic Nanostructures via Correlated Super-Resolution and Electron Microscopy. <i>ACS Nano</i> , 2018, 12, 5570-5579.	14.6	89
17	Remarkably High Heterogeneous Electron Transfer Activity of Carbon-Nanotube-Supported Reduced Graphene Oxide. <i>Chemistry of Materials</i> , 2016, 28, 7422-7432.	6.7	16
18	Advances in electrospun carbon fiber-based electrochemical sensing platforms for bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1307-1326.	3.7	30

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19	Electrochemically Nanostructured Polyvinylferrocene/Polypyrrole Hybrids with Synergy for Energy Storage. <i>Advanced Functional Materials</i> , 2015, 25, 4803-4813.	14.9	64
20	Electrochemically Responsive Heterogeneous Catalysis for Controlling Reaction Kinetics. <i>Journal of the American Chemical Society</i> , 2015, 137, 1348-1355.	13.7	31
21	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. <i>Chemistry of Materials</i> , 2015, 27, 4574-4585.	6.7	15
22	Ultra-Wide-Range Electrochemical Sensing Using Continuous Electrospun Carbon Nanofibers with High Densities of States. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3394-3405.	8.0	61
23	Polyvinylferrocene for Noncovalent Dispersion and Redox-Controlled Precipitation of Carbon Nanotubes in Nonaqueous Media. <i>Langmuir</i> , 2013, 29, 9626-9634.	3.5	46
24	Electrospun Carbon Nanofiber Webs with Controlled Density of States for Sensor Applications. <i>Advanced Materials</i> , 2013, 25, 1309-1314.	21.0	78
25	Metallocene/carbon hybrids prepared by a solution process for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13120.	10.3	38
26	Reviewâ€”Understanding and Controlling Charge Functions in Materials for Electrochemically Mediated Water Treatment. <i>Journal of the Electrochemical Society</i> , 0, , .	2.9	2