

Michael B Ross

List of Publications by Year in descending order

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35
papers

5,491
citations

236612

25
h-index

360668

35
g-index

35
all docs

35
docs citations

35
times ranked

7812
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019, 2, 648-658.	16.1	838
2	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018, 1, 103-110.	16.1	737
3	Efficient hydrogen peroxide generation using reduced graphene oxide-based oxygen reduction electrocatalysts. <i>Nature Catalysis</i> , 2018, 1, 282-290.	16.1	699
4	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017, 1, 794-805.	11.7	390
5	Structure-Sensitive CO ₂ Electroreduction to Hydrocarbons on Ultrathin 5-fold Twinned Copper Nanowires. <i>Nano Letters</i> , 2017, 17, 1312-1317.	4.5	363
6	Tunable Cu Enrichment Enables Designer Syngas Electrosynthesis from CO ₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 9359-9363.	6.6	260
7	Optical Properties of One-, Two-, and Three-Dimensional Arrays of Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 816-830.	1.5	257
8	General and Direct Method for Preparing Oligonucleotide-Functionalized Metal-Organic Framework Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 9827-9830.	6.6	245
9	Cu-Ag Tandem Catalysts for High-Rate CO ₂ Electrolysis toward Multicarbon. <i>Joule</i> , 2020, 4, 1688-1699.	11.7	239
10	A Surface Reconstruction Route to High Productivity and Selectivity in CO ₂ Electroreduction toward C ₂₊ Hydrocarbons. <i>Advanced Materials</i> , 2018, 30, e1804867.	11.1	200
11	Nanoscale form dictates mesoscale function in plasmonic DNA-nanoparticle superlattices. <i>Nature Nanotechnology</i> , 2015, 10, 453-458.	15.6	169
12	Using DNA to Design Plasmonic Metamaterials with Tunable Optical Properties. <i>Advanced Materials</i> , 2014, 26, 653-659.	11.1	157
13	Strong Coupling between Plasmonic Gap Modes and Photonic Lattice Modes in DNA-Assembled Gold Nanocube Arrays. <i>Nano Letters</i> , 2015, 15, 4699-4703.	4.5	128
14	Templated Synthesis of Uniform Perovskite Nanowire Arrays. <i>Journal of the American Chemical Society</i> , 2016, 138, 10096-10099.	6.6	101
15	Using nanoscale and mesoscale anisotropy to engineer the optical response of three-dimensional plasmonic metamaterials. <i>Nature Communications</i> , 2014, 5, 4090.	5.8	90
16	Aluminum Film-Over-Nanosphere Substrates for Deep-UV Surface-Enhanced Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 7968-7973.	4.5	86
17	Aluminum and Indium Plasmonic Nanoantennas in the Ultraviolet. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12506-12514.	1.5	84
18	Electrocatalytic Rate Alignment Enhances Syngas Generation. <i>Joule</i> , 2019, 3, 257-264.	11.7	62

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19	Radiative effects in plasmonic aluminum and silver nanospheres and nanorods. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 184004.	1.3	49
20	Shape and Size Control of Substrate-Grown Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy Detection of Chemical Analytes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2307-2314.	1.5	49
21	Defect tolerance and the effect of structural inhomogeneity in plasmonic DNA-nanoparticle superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10292-10297.	3.3	35
22	Polarization-Dependent Optical Response in Anisotropic Nanoparticleâ€DNA Superlattices. <i>Nano Letters</i> , 2017, 17, 2313-2318.	4.5	34
23	Plasmonic Metallurgy Enabled by DNA. <i>Advanced Materials</i> , 2016, 28, 2790-2794.	11.1	30
24	Solution-Dispersible Metal Nanorings with Deliberately Controllable Compositions and Architectural Parameters for Tunable Plasmonic Response. <i>Nano Letters</i> , 2015, 15, 5273-5278.	4.5	28
25	Structureâ€Function Relationships for Surface-Enhanced Raman Spectroscopy-Active Plasmonic Paper. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20789-20797.	1.5	27
26	Modular and Chemically Responsive Oligonucleotide â€Bondsâ€in Nanoparticle Superlattices. <i>Journal of the American Chemical Society</i> , 2015, 137, 13566-13571.	6.6	23
27	Self-Assembled Plasmonic Metamolecules Exhibiting Tunable Magnetic Response at Optical Frequencies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15915-15921.	1.5	20
28	Material strategies for function enhancement in plasmonic architectures. <i>Nanoscale</i> , 2022, 14, 602-611.	2.8	19
29	Lattice Dynamics and Optoelectronic Properties of Vacancy-Ordered Double Perovskite Cs_2TeX_6 ($X = \text{Cl}, \text{Br}, \text{I}$) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25126-25139.	1.5	17
30	Conformal, Macroscopic Crystalline Nanoparticle Sheets Assembled with DNA. <i>Advanced Materials</i> , 2015, 27, 3159-3163.	11.1	15
31	Carbon Dioxide Recycling Makes Waves. <i>Joule</i> , 2019, 3, 1814-1816.	11.7	14
32	Magneto-Optical Response of Cobalt Interacting with Plasmonic Nanoparticle Superlattices. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4732-4738.	2.1	13
33	Radiative Contributions Dominate Plasmon Broadening for Post-Transition Metals in the Ultraviolet. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19428-19437.	1.5	7
34	Enzymatically Controlled Vacancies in Nanoparticle Crystals. <i>Nano Letters</i> , 2016, 16, 5114-5119.	4.5	3
35	Plasmonically Enhanced Dye-Sensitized Solar Cells. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2013, , 125-147.	0.6	3