

Christopher M Andolina

List of Publications by Year in descending order

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docs citations

42
times ranked

2674
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly of Near-Infrared Luminescent Lanthanide Host(Guest) Complexes With a Metallacrown Sandwich Motif. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9660-9664.	13.8	161
2	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , 2016, 10, 10186-10194.	14.6	127
3	Dynamics of Soft Nanomaterials Captured by Transmission Electron Microscopy in Liquid Water. <i>Journal of the American Chemical Society</i> , 2014, 136, 1162-1165.	13.7	96
4	Photoluminescent Gold-Copper Nanoparticle Alloys with Composition-Tunable Near-Infrared Emission. <i>Journal of the American Chemical Society</i> , 2013, 135, 5266-5269.	13.7	92
5	Ligand-Mediated Turn On, High Quantum Yield Near-Infrared Emission in Small Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 14423-14429.	13.7	85
6	Tethered Dinuclear Europium(III) Macrocyclic Catalysts for the Cleavage of RNA. <i>Journal of the American Chemical Society</i> , 2008, 130, 14861-14871.	13.7	80
7	Decoupling Mechanisms of Platinum Deposition on Colloidal Gold Nanoparticle Substrates. <i>Journal of the American Chemical Society</i> , 2014, 136, 7873-7876.	13.7	68
8	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , 2016, 12, 668-677.	10.0	64
9	Complete Oxidation of Methane on Co ₃ O ₄ /CeO ₂ Nanocomposite: A Synergic Effect. <i>Catalysis Today</i> , 2018, 311, 48-55.	4.4	52
10	Circularly Polarized Luminescence of Curium: A New Characterization of the 5f Actinide Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 15545-15549.	13.7	47
11	Luminescence Resonance Energy Transfer in Heterodinuclear Ln ^{III} Complexes for Sensing Biologically Relevant Anions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 154-164.	2.0	45
12	Seedless Initiation as an Efficient, Sustainable Route to Anisotropic Gold Nanoparticles. <i>Langmuir</i> , 2013, 29, 4396-4403.	3.5	42
13	Transition of surface phase of cobalt oxide during CO oxidation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6440-6449.	2.8	41
14	Gold-Cobalt Nanoparticle Alloys Exhibiting Tunable Compositions, Near-Infrared Emission, and High Relaxivity. <i>Advanced Functional Materials</i> , 2014, 24, 6532-6539.	14.9	40
15	Description and Role of Bimetallic Prenucleation Species in the Formation of Small Nanoparticle Alloys. <i>Journal of the American Chemical Society</i> , 2015, 137, 15852-15858.	13.7	40
16	In Situ Observations of Early Stage Oxidation of Ni-Cr and Ni-Cr-Mo Alloys. <i>Corrosion</i> , 2018, 74, 939-946.	1.1	39
17	Analysis of Lanthanide Complex Dendrimer Conjugates for Bimodal NIR and MRI Imaging. <i>Macromolecules</i> , 2012, 45, 8982-8990.	4.8	36
18	Optimization and validation of a deep learning CuZr atomistic potential: Robust applications for crystalline and amorphous phases with near-DFT accuracy. <i>Journal of Chemical Physics</i> , 2020, 152, 154701.	3.0	35

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19	Dependence of H ₂ and CO ₂ selectivity on Cu oxidation state during partial oxidation of methanol on Cu/ZnO. <i>Applied Catalysis A: General</i> , 2018, 556, 64-72.	4.3	34
20	PARACEST Properties of a Dinuclear Neodymium(III) Complex Bound to DNA or Carbonate. <i>Bioconjugate Chemistry</i> , 2009, 20, 1375-1382.	3.6	32
21	Robust, Multi-Length-Scale, Machine Learning Potential for Ag-Au Bimetallic Alloys from Clusters to Bulk Materials. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17438-17447.	3.1	31
22	Conjugation to Biocompatible Dendrimers Increases Lanthanide T_2 Relaxivity of Hydroxypyridinone Complexes for Magnetic Resonance Imaging. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2108-2114.	2.0	28
23	Effects of Ligand Geometry on the Photophysical Properties of Photoluminescent Eu(III) and Sm(III) 1-Hydroxypyridin-2-one Complexes in Aqueous Solution. <i>Inorganic Chemistry</i> , 2016, 55, 114-124.	4.0	26
24	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. <i>Chemical Science</i> , 2016, 7, 4230-4236.	7.4	26
25	Solution Chemistry of Europium(III) Aqua Ion at Micromolar Concentrations as Probed by Direct Excitation Luminescence Spectroscopy. <i>Helvetica Chimica Acta</i> , 2009, 92, 2330-2348.	1.6	21
26	Connecting Oxide Nucleation and Growth to Oxygen Diffusion Energetics on Stepped Cu(011) Surfaces: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 452-463.	3.1	19
27	Improved Al-Mg alloy surface segregation predictions with a machine learning atomistic potential. <i>Physical Review Materials</i> , 2021, 5, .	2.4	18
28	Convergence acceleration in machine learning potentials for atomistic simulations. , 2022, 1, 61-69.		18
29	Spectroscopic System for Direct Lanthanide Photoluminescence Spectroscopy with Nanomolar Detection Limits. <i>Applied Spectroscopy</i> , 2009, 63, 483-493.	2.2	16
30	Efficient Energy Transfer from Near-Infrared Emitting Gold Nanoparticles to Pendant Ytterbium(III). <i>Journal of the American Chemical Society</i> , 2017, 139, 17767-17770.	13.7	15
31	Speciation of Eu(III) hydroxo complexes in aqueous DMSO studied by direct excitation luminescence spectroscopy and their catalytic activity in phosphodiester cleavage. <i>Dalton Transactions</i> , 2010, 39, 864-873.	3.3	14
32	<i>In situ</i> environmental TEM observation of two-stage shrinking of Cu ₂ O islands on Cu(100) during methanol reduction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2738-2742.	2.8	14
33	Near-Infrared Photoluminescence from Small Copper, Silver, and Gold Nanoparticles. <i>ChemNanoMat</i> , 2018, 4, 265-268.	2.8	12
34	Spectroscopic Investigations of Lanthanide Ion Binding to Nucleic Acids. <i>Metal Ions in Life Sciences</i> , 2012, 10, 171-199.	2.8	10
35	Copper Deposition on Gold Nanoprism Substrates. <i>Israel Journal of Chemistry</i> , 2016, 56, 257-261.	2.3	4
36	Constructing a Predictive Model of Copper Oxidation from Experiment and Theory. <i>Microscopy and Microanalysis</i> , 2017, 23, 920-921.	0.4	3

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37	Tuning electrical and interfacial thermal properties of bilayer MoS ₂ via electrochemical intercalation. Nanotechnology, 2021, 32, 265202.	2.6	3
38	Hydrogen localization and cluster formation in δ -Zr from first-principles investigations. Computational Materials Science, 2022, 209, 111384.	3.0	3
39	Structural Change of a Cu/ZnO Catalyst under Methanol Observed by ETEM. Microscopy and Microanalysis, 2017, 23, 2100-2101.	0.4	2
40	In situ Observation of C112O Island Shrinking on Cu(100) Facet under Methanol Using Environmental Transmission Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 302-303.	0.4	1
41	In situ Insights into the Uncorking and Oxidative Decomposition Dynamics of Gold Nanoparticle Corked Carbon Nanotube Cups for Drug Delivery. Microscopy and Microanalysis, 2018, 24, 308-309.	0.4	0