Byron H Farnum

List of Publications by Year
in descending order

25 papers	1,246 citations	623734 14 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	1742 citing authors

#	Article	IF	Citations
1	Electrochemical Impedance Spectroscopy of Metal Oxide Electrodes for Energy Applications. ACS Applied Energy Materials, 2020, 3, 66-98.	5.1	540
2	Iodide Chemistry in Dye-Sensitized Solar Cells: Making and Breaking Iâˆ’I Bonds for Solar Energy Conversion. Journal of Physical Chemistry Letters, 2010, 1, 3132-3140.	4.6	143
3	Self-assembled molecular p/n junctions for applications in dye-sensitized solar energy conversion. Nature Chemistry, 2016, 8, 845-852.	13.6	84
4	Interfacial Deposition of Ru(II) Bipyridine-Dicarboxylate Complexes by Ligand Substitution for Applications in Water Oxidation Catalysis. Journal of the American Chemical Society, 2018, 140, 719-726.	13.7	72
5	Site-Selective Passivation of Defects in NiO Solar Photocathodes by Targeted Atomic Deposition. ACS Applied Materials & Interfaces, 2016, 8, 4754-4761.	8.0	71
6	Layer-by-Layer Molecular Assemblies for Dye-Sensitized Photoelectrosynthesis Cells Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2017, 139, 14518-14525.	13.7	55
7	Molecular Photoelectrode for Water Oxidation Inspired by Photosystem II. Journal of the American Chemical Society, 2019, 141, 7926-7933.	13.7	55
8	Evidence and Influence of Copper Vacancies in p-Type CuGaO₂ Mesoporous Films. ACS Applied Energy Materials, 2019, 2, 19-28.	5.1	30
9	Generation of Long-Lived Redox Equivalents in Self-Assembled Bilayer Structures on Metal Oxide Electrodes. Journal of Physical Chemistry C, 2017, 121, 5882-5890.	3.1	24
10	Plasmon-enhanced light-driven water oxidation by a dye-sensitized photoanode. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9809-9813.	7.1	23
11	A donor-chromophore-catalyst assembly for solar CO₂ reduction. Chemical Science, 2019, 10, 4436-4444.	7.4	23
12	Simultaneous control of soil erosion and arsenic leaching at disturbed land using polyacrylamide modified magnetite nanoparticles. Science of the Total Environment, 2020, 702, 134997.	8.0	22
13	Inner Layer Control of Performance in a Dye-Sensitized Photoelectrosynthesis Cell. ACS Applied Materials & Interfaces, 2017, 9, 33533-33538.	8.0	16
14	Oxygen Reduction Electrocatalysis with Epitaxially Grown Spinel MnFe₂O₄ and Fe₃O₄. ACS Catalysis, 2022, 12, 3577-3588.	11.2	16
15	Structural Characterization and Redox Activity of a Uranyl Dimer and Transition-Metal Complexes of a Tetradentate BIAN Ligand. Organometallics, 2017, 36, 4626-4634.	2.3	13
16	Synthesis, characterization, and electrocatalytic activity of bis(pyridylimino)isoindoline Cu(<scp>ii</scp>) and Ni(<scp>ii</scp>) complexes. Dalton Transactions, 2021, 50, 926-935.	3.3	12
17	Thickness dependent OER electrocatalysis of epitaxial LaFeO₃ thin films. Journal of Materials Chemistry A, 2022, 10, 1909-1918.	10.3	12
18	The role of layer-by-layer, compact TiO₂ films in dye-sensitized photoelectrosynthesis cells. Sustainable Energy and Fuels, 2017, 1, 112-118.	4.9	11

#	Article	IF	Citations
19	Controlling One-Electron vs Two-Electron Pathways in the Multi-Electron Redox Cycle of Nickel Diethyldithiocarbamate. Inorganic Chemistry, 2021, 60, 13388-13399.	4.0	7
20	Chemical approaches to artificial photosynthesis: A molecular, dye-sensitized photoanode for O2 production prepared by layer-by-layer self-assembly. Journal of Chemical Physics, 2020, 152, 244706.	3.0	6
21	Solid-State Succinonitrile/Sulfide Hole Transport Layer and Carbon Fabric Counter Electrode for a Quantum Dot Solar Cell. ACS Applied Nano Materials, 2019, 2, 7880-7887.	5.0	5
22	Influence of Pyridine on the Multielectron Redox Cycle of Nickel Diethyldithiocarbamate. Inorganic Chemistry, 2019, 58, 15371-15384.	4.0	4
23	Group 13 Lewis acid catalyzed synthesis of metal oxide nanocrystals via hydroxide transmetallation. Nanoscale, 2021, 13, 11505-11517.	5.6	1
24	Defining the Role of Cr³⁺ as a Reductant in the Hydrothermal Synthesis of CuCrO₂ Delafossite. Inorganic Chemistry, 2022, 61, 8349-8355.	4.0	1
25	Copper Delafossites: Diverse Materials for Solar Energy Conversion and Storage. ECS Meeting Abstracts, 2019, , .	0.0	0