Ivan A Moreno-Hernandez

List of Publications by Year
in descending order

16	570	759233 12	940533 16
papers	citations	h-index	g-index

18	18	18	1118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystalline nickel manganese antimonate as a stable water-oxidation catalyst in aqueous 1.0 M H₂SO₄. Energy and Environmental Science, 2017, 10, 2103-2108.	30.8	158
2	Crystalline nickel, cobalt, and manganese antimonates as electrocatalysts for the chlorine evolution reaction. Energy and Environmental Science, 2019, 12, 1241-1248.	30.8	78
3	Photoelectrochemical Behavior of a Molecular Ru-Based Water-Oxidation Catalyst Bound to TiO₂-Protected Si Photoanodes. Journal of the American Chemical Society, 2017, 139, 11345-11348.	13.7	56
4	A comparison of the chemical, optical and electrocatalytic properties of water-oxidation catalysts for use in integrated solar-fuel generators. Energy and Environmental Science, 2017, 10, 987-1002.	30.8	50
5	AutoDetect-mNP: An Unsupervised Machine Learning Algorithm for Automated Analysis of Transmission Electron Microscope Images of Metal Nanoparticles. Jacs Au, 2021, 1, 316-327.	7.9	44
6	Tin Oxide as a Protective Heterojunction with Silicon for Efficient Photoelectrochemical Water Oxidation in Strongly Acidic or Alkaline Electrolytes. Advanced Energy Materials, 2018, 8, 1801155.	19.5	34
7	Investigations of the stability of etched or platinized p-InP(100) photocathodes for solar-driven hydrogen evolution in acidic or alkaline aqueous electrolytes. Energy and Environmental Science, 2021, 14, 6007-6020.	30.8	33
8	Performance and failure modes of Si anodes patterned with thin-film Ni catalyst islands for water oxidation. Sustainable Energy and Fuels, 2018, 2, 983-998.	4.9	24
9	Precise Colloidal Plasmonic Photocatalysts Constructed by Multistep Photodepositions. Nano Letters, 2020, 20, 8661-8667.	9.1	20
10	Self-Limiting Shell Formation in Cu@Ag Coreâ€“Shell Nanocrystals during Galvanic Replacement. Journal of Physical Chemistry Letters, 2020, 11, 5318-5323.	4.6	16
11	Enhanced stability of silicon for photoelectrochemical water oxidation through self-healing enabled by an alkaline protective electrolyte. Energy and Environmental Science, 2020, 13, 4132-4141.	30.8	14
12	Redox Mediated Control of Electrochemical Potential in Liquid Cell Electron Microscopy. Journal of the American Chemical Society, 2021, 143, 12082-12089.	13.7	13
13	Conformal SnO_x heterojunction coatings for stabilized photoelectrochemical water oxidation using arrays of silicon microcones. Journal of Materials Chemistry A, 2020, 8, 9292-9301.	10.3	12
14	Elucidating the Role of Halides and Iron during Radiolysis-Driven Oxidative Etching of Gold Nanocrystals Using Liquid Cell Transmission Electron Microscopy and Pulse Radiolysis. Journal of the American Chemical Society, 2021, 143, 11703-11713.	13.7	11
15	In Situ Quantification of Interactions between Charged Nanorods in a Predefined Potential Energy Landscape. Nano Letters, 2021, 21, 628-633.	9.1	4
16	Recent advances in the study of colloidal nanocrystals enabled by in situ liquid-phase transmission electron microscopy. MRS Bulletin, 2022, 47, 305-313.	3.5	3