

Ivan A Moreno-Hernandez

List of Publications by Year in descending order

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16
papers

570
citations

759233

12
h-index

940533

16
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18
all docs

18
docs citations

18
times ranked

1118
citing authors

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