Laurie A King

List of Publications by Year
in descending order

33 papers	1,247 citations	430874 18 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	2355 citing authors

#	Article	IF	Citations
1	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. Nature Nanotechnology, 2019, 14, 1071-1074.	31.5	209
2	Photoelectrochemical properties of chemically exfoliated MoS2. Journal of Materials Chemistry A, 2013, 1, 8935.	10.3	137
3	Acidic Oxygen Evolution Reaction Activityâ€“Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	11.2	111
4	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	8.0	81
5	Investigating Catalystâ€“Support Interactions To Improve the Hydrogen Evolution Reaction Activity of Thiomolybdate [Mo₃S₁₃]^{2â€“} Nanoclusters. ACS Catalysis, 2017, 7, 7126-7130.	11.2	76
6	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36792-36798.	8.0	73
7	Nitride or Oxynitride? Elucidating the Compositionâ€“Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 2946-2960.	6.7	57
8	Systematic Investigation of Iridium-Based Bimetallic Thin Film Catalysts for the Oxygen Evolution Reaction in Acidic Media. ACS Applied Materials & Interfaces, 2019, 11, 34059-34066.	8.0	56
9	Evaluating the Case for Reduced Precious Metal Catalysts in Proton Exchange Membrane Electrolyzers. ACS Energy Letters, 2022, 7, 17-23.	17.4	49
10	Addressing the Stability Gap in Photoelectrochemistry: Molybdenum Disulfide Protective Catalysts for Tandem IIIâ€“V Unassisted Solar Water Splitting. ACS Energy Letters, 2020, 5, 2631-2640.	17.4	48
11	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO2 to CO. Chem Catalysis, 2021, 1, 663-680.	6.1	42
12	Supported Oxygen Evolution Catalysts by Design: Toward Lower Precious Metal Loading and Improved Conductivity in Proton Exchange Membrane Water Electrolyzers. ACS Catalysis, 2020, 10, 13125-13135.	11.2	33
13	Importance of QD Purification Procedure on Surface Adsorbance of QDs and Performance of QD Sensitized Photoanodes. Journal of Physical Chemistry C, 2012, 116, 3349-3355.	3.1	31
14	Lattice Matched Carbideâ€“Phosphide Composites with Superior Electrocatalytic Activity and Stability. Chemistry of Materials, 2017, 29, 9369-9377.	6.7	22
15	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. Advanced Energy Materials, 2021, 11, 2003545.	19.5	21
16	Synthesis and Characterization of Ultrathin Silver Sulfide Nanoplatelets. ACS Nano, 2017, 11, 8471-8477.	14.6	20
17	The Materials Research Platform: Defining the Requirements from User Stories. Matter, 2019, 1, 1433-1438.	10.0	19
18	Nanostructuring Strategies To Increase the Photoelectrochemical Water Splitting Activity of Silicon Photocathodes. ACS Applied Nano Materials, 2019, 2, 6-11.	5.0	19

#	Article	IF	Citations
19	Transition Metal Arsenide Catalysts for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 24007-24012.	3.1	18
20	Nanosized Zirconium Porphyrinic Metalâ€“Organic Frameworks that Catalyze the Oxygen Reduction Reaction in Acid. Small Methods, 2020, 4, 2000085.	8.6	18
21	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2020, 3, 12433-12446.	5.1	17
22	Characterization of a Dynamic Y₂Ir₂O₇ Catalyst during the Oxygen Evolution Reaction in Acid. Journal of Physical Chemistry C, 2022, 126, 1751-1760.	3.1	17
23	Photosensitization of ZnO Crystals with Iodide-Capped PbSe Quantum Dots. Journal of Physical Chemistry Letters, 2016, 7, 2844-2848.	4.6	13
24	A Spin Coating Method To Deposit Iridium-Based Catalysts onto Silicon for Water Oxidation Photoanodes. ACS Applied Materials & Interfaces, 2020, 12, 5901-5908.	8.0	12
25	Surface Engineering of 3D Gas Diffusion Electrodes for Highâ€Performance H₂ Production with Nonprecious Metal Catalysts. Advanced Energy Materials, 2019, 9, 1901824.	19.5	11
26	Photosensitization of Natural and Synthetic SnO₂ Single Crystals with Dyes and Quantum Dots. Journal of Physical Chemistry C, 2016, 120, 15735-15742.	3.1	9
27	A cyclic electrochemical strategy to produce acetylene from CO₂, CH₄, or alternative carbon sources. Sustainable Energy and Fuels, 2020, 4, 2752-2759.	4.9	9
28	Engineering Surface Architectures for Improved Durability in IIIâ€“V Photocathodes. ACS Applied Materials & Interfaces, 2022, 14, 20385-20392.	8.0	6
29	Precious-metal-free catalyst could afford cost-effective green hydrogen. CheM, 2022, 8, 1539-1540.	11.7	4
30	Activation of CdSe Quantum Dots after Exposure to Polysulfide. Journal of Physical Chemistry C, 2014, 118, 14555-14561.	3.1	3
31	Probing the Relative Photoinjection Yields of Monomer and Aggregated Dyes into ZnO Crystals. Langmuir, 2017, 33, 468-474.	3.5	3
32	Sensitization of Single Crystal Substrates. ACS Symposium Series, 2015, , 1-45.	0.5	2
33	Transmission Electron Microscopy (TEM) Studies on Nickel and Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts. Microscopy and Microanalysis, 2019, 25, 2072-2073.	0.4	1