

Lena Trotochaud

List of Publications by Year in descending order

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39
papers

8,075
citations

331670

21
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

9409
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel–Iron Oxyhydroxide Oxygen-Evolution Electrocatalysts: The Role of Intentional and Incidental Iron Incorporation. <i>Journal of the American Chemical Society</i> , 2014, 136, 6744-6753.	13.7	2,659
2	Cobalt–Iron (Oxy)hydroxide Oxygen Evolution Electrocatalysts: The Role of Structure and Composition on Activity, Stability, and Mechanism. <i>Journal of the American Chemical Society</i> , 2015, 137, 3638-3648.	13.7	1,587
3	Solution-Cast Metal Oxide Thin Film Electrocatalysts for Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2012, 134, 17253-17261.	13.7	1,403
4	Effects of Fe Electrolyte Impurities on Ni(OH) ₂ /NiOOH Structure and Oxygen Evolution Activity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7243-7254.	3.1	806
5	Electrochemical Study of the Energetics of the Oxygen Evolution Reaction at Nickel Iron (Oxy)Hydroxide Catalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19022-19029.	3.1	282
6	Precise oxygen evolution catalysts: Status and opportunities. <i>Scripta Materialia</i> , 2014, 74, 25-32.	5.2	165
7	Contributions to activity enhancement via Fe incorporation in Ni-(oxy)hydroxide/borate catalysts for near-neutral pH oxygen evolution. <i>Chemical Communications</i> , 2015, 51, 5261-5263.	4.1	138
8	An Optocatalytic Model for Semiconductor–Catalyst Water-Splitting Photoelectrodes Based on In Situ Optical Measurements on Operational Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 931-935.	4.6	130
9	Role of Catalyst Preparation on the Electrocatalytic Activity of Ni _{1-x} Fe _x OOH for the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18303-18316.	3.1	114
10	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. <i>Scientific Reports</i> , 2017, 7, 13341.	3.3	76
11	Adsorption of Dimethyl Methylphosphonate on MoO ₃ : The Role of Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29077-29088.	3.1	66
12	Ambient pressure photoelectron spectroscopy: Practical considerations and experimental frontiers. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 053002.	1.8	63
13	Water Adsorption and Dissociation on Polycrystalline Copper Oxides: Effects of Environmental Contamination and Experimental Protocol. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1000-1008.	2.6	61
14	Direct Mapping of Band Positions in Doped and Undoped Hematite during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5579-5586.	4.6	53
15	Spectroscopic and Computational Investigation of Room-Temperature Decomposition of a Chemical Warfare Agent Simulant on Polycrystalline Cupric Oxide. <i>Chemistry of Materials</i> , 2017, 29, 7483-7496.	6.7	48
16	Synthesis of Rutile-Phase Sn _x Ti _{1-x} O ₂ Solid-Solution and (SnO ₂) _x /(TiO ₂) _{1-x} Core/Shell Nanoparticles with Tunable Lattice Constants and Controlled Morphologies. <i>Chemistry of Materials</i> , 2011, 23, 4920-4930.	6.7	45
17	Experimental and Computational Evidence of Highly Active Fe Impurity Sites on the Surface of Oxidized Au for the Electrocatalytic Oxidation of Water in Basic Media. <i>ChemElectroChem</i> , 2016, 3, 66-73.	3.4	44
18	Constructing a pathway for mixed ion and electron transfer reactions for O ₂ incorporation in Pr _{0.1} Ce _{0.9} O _{2-x} . <i>Nature Catalysis</i> , 2020, 3, 116-124.	34.4	40

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19	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. <i>Scientific Reports</i> , 2017, 7, 45123.	3.3	36
20	Water (Non-)Interaction with MoO ₃ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 16836-16842.	3.1	35
21	CO adsorption on Pd(100) studied by multimodal ambient pressure X-ray photoelectron and infrared reflection absorption spectroscopies. <i>Surface Science</i> , 2017, 665, 51-55.	1.9	25
22	X-Ray Spectroscopic Characterization of BaO, Ba(OH) ₂ , BaCO ₃ , and Ba(NO ₃) ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 225, 55-61.	1.7	22
23	Room temperature decomposition of dimethyl methylphosphonate on cuprous oxide yields atomic phosphorus. <i>Surface Science</i> , 2019, 680, 75-87.	1.9	20
24	Thermal desorption of dimethyl methylphosphonate from MoO ₃ . <i>Journal of Lithic Studies</i> , 2017, 3, 112-118.	0.5	19
25	Dimethyl methylphosphonate adsorption and decomposition on MoO ₂ as studied by ambient pressure x-ray photoelectron spectroscopy and DFT calculations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 134005.	1.8	19
26	Enhancing Graphene Protective Coatings by Hydrogen-Induced Chemical Bond Formation. <i>ACS Applied Nano Materials</i> , 2018, 1, 4509-4515.	5.0	19
27	Identifying the Role of Dynamic Surface Hydroxides in the Dehydrogenation of Ti-Doped NaAlH ₄ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4930-4941.	8.0	19
28	Electron Spectroscopy and Computational Studies of Dimethyl Methylphosphonate. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1985-1991.	2.5	17
29	Quantitative Characterization of a Desalination Membrane Model System by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2019, 35, 11315-11321.	3.5	12
30	Laboratory Demonstration and Preliminary Techno-Economic Analysis of an Onsite Wastewater Treatment System. <i>Environmental Science & Technology</i> , 2020, 54, 16147-16155.	10.0	10
31	Coupling Ambient Pressure X-ray Photoelectron Spectroscopy with Density Functional Theory to Study Complex Surface Chemistry and Catalysis. <i>Topics in Catalysis</i> , 2018, 61, 2175-2184.	2.8	8
32	Mechanisms of Degradation of Toxic Nerve Agents: Quantum-chemical Insight into Interactions of Sarin and Soman with Molybdenum Dioxide. <i>Surface Science</i> , 2020, 700, 121639.	1.9	7
33	Non-biological methods for phosphorus and nitrogen removal from wastewater: A gap analysis of reinvented-toilet technologies with respect to ISO 30500. <i>Gates Open Research</i> , 2019, 3, 559.	1.1	7
34	NO ₂ Interactions with MoO ₃ and CuO at Atmospherically Relevant Pressures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16489-16497.	3.1	5
35	Advanced and In Situ Analytical Methods for Solar Fuel Materials. <i>Topics in Current Chemistry</i> , 2015, 371, 253-324.	4.0	4
36	Non-biological methods for phosphorus and nitrogen removal from wastewater: A gap analysis of reinvented-toilet technologies with respect to ISO 30500. <i>Gates Open Research</i> , 2019, 3, 559.	1.1	4

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37	Water-polyamide chemical interplay in desalination membranes explored by ambient pressure X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15658-15663.	2.8	3
38	Prospects for the expansion of standing wave ambient pressure photoemission spectroscopy to reactions at elevated temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 013207.	2.1	2
39	Potential Pitfalls in Wastewater Phosphorus Analysis and How to Avoid Them. <i>Environmental Health Insights</i> , 2021, 15, 117863022110192.	1.7	1