

Katharina Klingan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,192
citations

394421

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677142

22
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docs citations

24
times ranked

3125
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology and mechanism of highly selective Cu(II) oxide nanosheet catalysts for carbon dioxide electroreduction. <i>Nature Communications</i> , 2021, 12, 794.	12.8	168
2	Operando tracking of oxidation-state changes by coupling electrochemistry with time-resolved X-ray absorption spectroscopy demonstrated for water oxidation by a cobalt-based catalyst film. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5395-5408.	3.7	16
3	Exploring the Limits of Self-Repair in Cobalt Oxide Films for Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 7990-7999.	11.2	21
4	Self-supported Ni(OH) ₂ /MnO ₂ on CFP as a flexible anode towards electrocatalytic urea conversion: The role of composition on activity, redox states and reaction dynamics. <i>Electrochimica Acta</i> , 2019, 318, 32-41.	5.2	33
5	Structural and functional role of anions in electrochemical water oxidation probed by arsenate incorporation into cobalt-oxide materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12485-12493.	2.8	18
6	Electrodeposited AgCu Foam Catalysts for Enhanced Reduction of CO ₂ to CO. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14734-14744.	8.0	71
7	New aspects of operando Raman spectroscopy applied to electrochemical CO ₂ reduction on Cu foams. <i>Journal of Chemical Physics</i> , 2019, 150, 041718.	3.0	149
8	Nickel-iron catalysts for electrochemical water oxidation – redox synergism investigated by <i>in situ</i> X-ray spectroscopy with millisecond time resolution. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1986-1994.	4.9	64
9	Reactivity Determinants in Electrodeposited Cu Foams for Electrochemical CO ₂ Reduction. <i>ChemSusChem</i> , 2018, 11, 3449-3459.	6.8	80
10	Geometric distortions in nickel (oxy)hydroxide electrocatalysts by redox inactive iron ions. <i>Energy and Environmental Science</i> , 2018, 11, 2476-2485.	30.8	83
11	Spectroscopic identification of active sites for the oxygen evolution reaction on iron-cobalt oxides. <i>Nature Communications</i> , 2017, 8, 2022.	12.8	147
12	Electrosynthesis of Biomimetic Manganese–Calcium Oxides for Water Oxidation Catalysis – Atomic Structure and Functionality. <i>ChemSusChem</i> , 2016, 9, 379-387.	6.8	33
13	Water oxidation catalysis – role of redox and structural dynamics in biological photosynthesis and inorganic manganese oxides. <i>Energy and Environmental Science</i> , 2016, 9, 2433-2443.	30.8	99
14	Hydrophobic Nanoreactor Soft-Templating: A Supramolecular Approach to Yolk@Shell Materials. <i>Advanced Functional Materials</i> , 2015, 25, 6228-6240.	14.9	40
15	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2472-2476.	13.8	152
16	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. <i>Angewandte Chemie</i> , 2015, 127, 2502-2506.	2.0	46
17	Shining light on integrity of a tetracobalt-polyoxometalate water oxidation catalyst by X-ray spectroscopy before and after catalysis. <i>Chemical Communications</i> , 2014, 50, 100-102.	4.1	62
18	Electronic and molecular structures of the active-site H-cluster in [FeFe]-hydrogenase determined by site-selective X-ray spectroscopy and quantum chemical calculations. <i>Chemical Science</i> , 2014, 5, 1187-1203.	7.4	60

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19	Water Oxidation by Amorphous Cobalt-Based Oxides: Volume Activity and Proton Transfer to Electrolyte Bases. <i>ChemSusChem</i> , 2014, 7, 1301-1310.	6.8	183
20	The Structure of a Water-oxidizing Cobalt Oxide Film and Comparison to the Photosynthetic Manganese Complex. <i>Advanced Topics in Science and Technology in China</i> , 2013, , 257-261.	0.1	0
21	Electrosynthesis, functional, and structural characterization of a water-oxidizing manganese oxide. <i>Energy and Environmental Science</i> , 2012, 5, 7081.	30.8	407
22	Water Oxidation by Electrodeposited Cobalt Oxides—Role of Anions and Redox-Inert Cations in Structure and Function of the Amorphous Catalyst. <i>ChemSusChem</i> , 2012, 5, 542-549.	6.8	149
23	Nickel-oxido structure of a water-oxidizing catalyst film. <i>Chemical Communications</i> , 2011, 47, 11912.	4.1	105