Katharina Klingan

List of Publications by Year
in descending order

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23	2,192	394421	677142
papers	citations	19 h-index	22 g-index

24	24	24	3125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrosynthesis, functional, and structural characterization of a water-oxidizing manganese oxide. Energy and Environmental Science, 2012, 5, 7081.	30.8	407
2	Water Oxidation by Amorphous Cobaltâ€Based Oxides: Volume Activity and Proton Transfer to Electrolyte Bases. ChemSusChem, 2014, 7, 1301-1310.	6.8	183
3	Morphology and mechanism of highly selective Cu(II) oxide nanosheet catalysts for carbon dioxide electroreduction. Nature Communications, 2021, 12, 794.	12.8	168
4	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2472-2476.	13.8	152
5	Water Oxidation by Electrodeposited Cobalt Oxidesâ€”Role of Anions and Redoxâ€Inert Cations in Structure and Function of the Amorphous Catalyst. ChemSusChem, 2012, 5, 542-549.	6.8	149
6	New aspects of operando Raman spectroscopy applied to electrochemical CO2 reduction on Cu foams. Journal of Chemical Physics, 2019, 150, 041718.	3.0	149
7	Spectroscopic identification of active sites for the oxygen evolution reaction on iron-cobalt oxides. Nature Communications, 2017, 8, 2022.	12.8	147
8	Nickel-oxido structure of a water-oxidizing catalyst film. Chemical Communications, 2011, 47, 11912.	4.1	105
9	Water oxidation catalysis â€“ role of redox and structural dynamics in biological photosynthesis and inorganic manganese oxides. Energy and Environmental Science, 2016, 9, 2433-2443.	30.8	99
10	Geometric distortions in nickel (oxy)hydroxide electrocatalysts by redox inactive iron ions. Energy and Environmental Science, 2018, 11, 2476-2485.	30.8	83
11	Reactivity Determinants in Electrodeposited Cu Foams for Electrochemical CO₂ Reduction. ChemSusChem, 2018, 11, 3449-3459.	6.8	80
12	Electrodeposited AgCu Foam Catalysts for Enhanced Reduction of CO₂ to CO. ACS Applied Materials & Interfaces, 2019, 11, 14734-14744.	8.0	71
13	Nickel-iron catalysts for electrochemical water oxidation â€“ redox synergism investigated by in situ X-ray spectroscopy with millisecond time resolution. Sustainable Energy and Fuels, 2018, 2, 1986-1994.	4.9	64
14	Shining light on integrity of a tetracobalt-polyoxometalate water oxidation catalyst by X-ray spectroscopy before and after catalysis. Chemical Communications, 2014, 50, 100-102.	4.1	62
15	Electronic and molecular structures of the active-site H-cluster in [FeFe]-hydrogenase determined by site-selective X-ray spectroscopy and quantum chemical calculations. Chemical Science, 2014, 5, 1187-1203.	7.4	60
16	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie, 2015, 127, 2502-2506.	2.0	46
17	Hydrophobic Nanoreactor Softâ€Templating: A Supramolecular Approach to Yolk@Shell Materials. Advanced Functional Materials, 2015, 25, 6228-6240.	14.9	40
18	Electrosynthesis of Biomimetic Manganeseâ€“Calcium Oxides for Water Oxidation Catalysisâ€”Atomic Structure and Functionality. ChemSusChem, 2016, 9, 379-387.	6.8	33

#	Article	IF	Citations
19	Self-supported Ni(OH)2/MnO2 on CFP as a flexible anode towards electrocatalytic urea conversion: The role of composition on activity, redox states and reaction dynamics. Electrochimica Acta, 2019, 318, 32-41.	5.2	33
20	Exploring the Limits of Self-Repair in Cobalt Oxide Films for Electrocatalytic Water Oxidation. ACS Catalysis, 2020, 10, 7990-7999.	11.2	21
21	Structural and functional role of anions in electrochemical water oxidation probed by arsenate incorporation into cobalt-oxide materials. Physical Chemistry Chemical Physics, 2019, 21, 12485-12493.	2.8	18
22	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. Analytical and Bioanalytical Chemistry, 2021, 413, 5395-5408.	3.7	16
23	The Structure of a Water-oxidizing Cobalt Oxide Film and Comparison to the Photosynthetic Manganese Complex. Advanced Topics in Science and Technology in China, 2013, , 257-261.	0.1	0