Diego GonzÃ¡lez-Flores

List of Publications by Year
in descending order

25 papers	1,299 citations	567281 15 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	2145 citing authors

#	Article	IF	Citations
1	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. ACS Catalysis, 2015, 5, 2017-2027.	11.2	249
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	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2472-2476.	13.8	152
4	Spectroscopic identification of active sites for the oxygen evolution reaction on iron-cobalt oxides. Nature Communications, 2017, 8, 2022.	12.8	147
5	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
6	Geometric distortions in nickel (oxy)hydroxide electrocatalysts by redox inactive iron ions. Energy and Environmental Science, 2018, 11, 2476-2485.	30.8	83
7	H/D Isotope Effects Reveal Factors Controlling Catalytic Activity in Co-Based Oxides for Water Oxidation. Journal of the American Chemical Society, 2019, 141, 2938-2948.	13.7	72
8	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
9	Screenâ€Printed Calciumâ€“Birnessite Electrodes for Water Oxidation at Neutral pH and an â€œElectrochemical Harriman Seriesâ€. ChemSusChem, 2014, 7, 3442-3451.	6.8	61
10	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie, 2015, 127, 2502-2506.	2.0	46
11	Electrosynthesis of Biomimetic Manganeseâ€“Calcium Oxides for Water Oxidation Catalysisâ€”Atomic Structure and Functionality. ChemSusChem, 2016, 9, 379-387.	6.8	33
12	Exploring the Limits of Self-Repair in Cobalt Oxide Films for Electrocatalytic Water Oxidation. ACS Catalysis, 2020, 10, 7990-7999.	11.2	21
13	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
14	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
15	Requirements for Beneficial Electrochemical Restructuring: A Model Study on a Cobalt Oxide in Selected Electrolytes. Advanced Energy Materials, 2021, 11, 2101737.	19.5	16
16	Formic Acid: A Low-Cost, Mild, Ecofriendly, and Highly Efficient Catalyst for the Rapid Synthesis of Î²-Enaminones. Synthetic Communications, 2013, 43, 2349-2364.	2.1	12
17	Antiâ€corrosive additives for alkaline electrolyte in Alâ€air batteries: NH₄VO₃ and polyoxometalates. Electrochemical Science Advances, 2022, 2, e2100125.	2.8	6
18	Electroactive copper(II) bimetallic self-assembled multilayers on Si(100). Surface Science, 2012, 606, 527-535.	1.9	4

#	Article	IF	Citations
19	Spectroelectrochemical Experiment for Studying Water Oxidation with a Nickel Oxide Catalyst. Journal of Chemical Education, 2021, 98, 607-613.	2.3	4
20	Performance Improvement of Alkalineâ€“Electrolyte Aluminumâ€“Air Batteries by NH₄VO₃-Based Additives. Energy & Fuels, 2022, 36, 2851-2860.	5.1	4
21	Synthesis of hafnium(IV) Î²-ketoiminates as potential precursors for the MOCVD of HfO2. Inorganica Chimica Acta, 2013, 396, 60-65.	2.4	3
22	Synthesis, Characterization and Crystal Structure of (Z)-3-(4-Chlorophenylamino)-1-Phenylbut-2-En-1-One. Journal of Chemical Crystallography, 2012, 42, 543-548.	1.1	2
23	An Advanced Experiment for Studying Electron Transfer and Charge Storage on Surfaces Modified with Metallic Complexes. Journal of Chemical Education, 2013, 90, 1077-1081.	2.3	2
24	Synthesis, Characterization and Crystal Structure of (2Z)-3-[(4-Methylphenyl)amino]-1-phenylbut-2-en-1-one. Journal of Chemical Crystallography, 2012, 42, 560-565.	1.1	1
25	Oxidative dissolution of synthetic vivianites as a method for the crystallization of molecular structural motifs. Structural Chemistry, 2021, 32, 445-455.	2.0	1