Oscar Diaz-Morales

List of Publications by Year
in descending order

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24 papers	5,465 citations	430874 18 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	7613 citing authors

#	Article	IF	Citations
1	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.6	1,409
2	The stability number as a metric for electrocatalyst stability benchmarking. Nature Catalysis, 2018, 1, 508-515.	34.4	533
3	The importance of nickel oxyhydroxide deprotonation on its activity towards electrochemical water oxidation. Chemical Science, 2016, 7, 2639-2645.	7.4	494
4	Guidelines for the Rational Design of Ni-Based Double Hydroxide Electrocatalysts for the Oxygen Evolution Reaction. ACS Catalysis, 2015, 5, 5380-5387.	11.2	472
5	In Situ Observation of Active Oxygen Species in Fe-Containing Ni-Based Oxygen Evolution Catalysts: The Effect of pH on Electrochemical Activity. Journal of the American Chemical Society, 2015, 137, 15112-15121.	13.7	459
6	Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin. Nature Communications, 2015, 6, 8177.	12.8	456
7	Iridium-based double perovskites for efficient water oxidation in acid media. Nature Communications, 2016, 7, 12363.	12.8	353
8	Orientation-Dependent Oxygen Evolution on RuO₂ without Lattice Exchange. ACS Energy Letters, 2017, 2, 876-881.	17.4	251
9	Electrochemical water splitting by gold: evidence for an oxide decomposition mechanism. Chemical Science, 2013, 4, 2334.	7.4	229
10	Why Is Bulk Thermochemistry a Good Descriptor for the Electrocatalytic Activity of Transition Metal Oxides?. ACS Catalysis, 2015, 5, 869-873.	11.2	189
11	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
12	Nature and Distribution of Stable Subsurface Oxygen in Copper Electrodes During Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25003-25009.	3.1	98
13	Stability and Effects of Subsurface Oxygen in Oxide-Derived Cu Catalyst for CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25010-25017.	3.1	92
14	Electrochemical and Spectroelectrochemical Characterization of an Iridium-Based Molecular Catalyst for Water Splitting: Turnover Frequencies, Stability, and Electrolyte Effects. Journal of the American Chemical Society, 2014, 136, 10432-10439.	13.7	83
15	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. Nature Communications, 2020, 11, 6181.	12.8	80
16	Current transient study of the kinetics of nucleation and diffusion-controlled growth of bimetallic phases. Journal of Solid State Electrochemistry, 2013, 17, 345-351.	2.5	38
17	Hydrogen Oxidation and Hydrogen Evolution on a Platinum Electrode in Acetonitrile. ChemElectroChem, 2015, 2, 1612-1622.	3.4	36
18	Hydrogen adsorption on nano-structured platinum electrodes. Faraday Discussions, 2018, 210, 301-315.	3.2	27

#	Article	IF	Citations
19	Early stages of catalyst aging in the iridium mediated water oxidation reaction. Physical Chemistry Chemical Physics, 2016, 18, 10931-10940.	2.8	14
20	Selective electrochemical hydrogen evolution on cerium oxide protected catalyst surfaces. Electrochimica Acta, 2020, 341, 136022.	5.2	13
21	Chemisorbed oxygen or surface oxides steer the selectivity in Pd electrocatalytic propene oxidation observed by operando Pd L-edge X-ray absorption spectroscopy. Catalysis Science and Technology, 2021, 11, 3347-3352.	4.1	6
22	Impurity as a virtue. Nature Energy, 2020, 5, 193-194.	39.5	5
23	Electrochemical Carbon Dioxide Reduction on Femtosecond Laser-Processed Copper Electrodes: Effect on the Liquid Products by Structuring and Doping. ACS Applied Energy Materials, 2021, 4, 5927-5934.	5.1	5
24	Sources of Oxygen Produced in the Chlorate Process Utilizing Dimensionally Stable Anode (DSA) Electrodes Doped by Sn and Sb. Industrial & Engineering Chemistry Research, 2021, 60, 13505-13514.	3.7	5