Simon Geiger

List of Publications by Year
in descending order

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18 papers	3,180 citations	516710 16 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	4013 citing authors

#	Article	IF	Citations
1	Oxygen and hydrogen evolution reactions on Ru, RuO 2 , Ir, and IrO 2 thin film electrodes in acidic and alkaline electrolytes: A comparative study on activity and stability. Catalysis Today, 2016, 262, 170-180.	4.4	999
2	The stability number as a metric for electrocatalyst stability benchmarking. Nature Catalysis, 2018, 1, 508-515.	34.4	533
3	The Common Intermediates of Oxygen Evolution and Dissolution Reactions during Water Electrolysis on Iridium. Angewandte Chemie - International Edition, 2018, 57, 2488-2491.	13.8	331
4	Oxygen evolution activity and stability of iridium in acidic media. Part 2. â€“ Electrochemically grown hydrous iridium oxide. Journal of Electroanalytical Chemistry, 2016, 774, 102-110.	3.8	209
5	Degradation of iridium oxides via oxygen evolution from the lattice: correlating atomic scale structure with reaction mechanisms. Energy and Environmental Science, 2019, 12, 3548-3555.	30.8	147
6	Activity and Stability of Electrochemically and Thermally Treated Iridium for the Oxygen Evolution Reaction. Journal of the Electrochemical Society, 2016, 163, F3132-F3138.	2.9	140
7	Stability limits of tin-based electrocatalyst supports. Scientific Reports, 2017, 7, 4595.	3.3	127
8	Stability and Activity of Nonâ€Nobleâ€Metalâ€Based Catalysts Toward the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 9767-9771.	13.8	118
9	Catalyst Stability Benchmarking for the Oxygen Evolution Reaction: The Importance of Backing Electrode Material and Dissolution in Accelerated Aging Studies. ChemSusChem, 2017, 10, 4140-4143.	6.8	111
10	Electrochemical Onâ€line ICPâ€MS in Electrocatalysis Research. Chemical Record, 2019, 19, 2130-2142.	5.8	92
11	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. Nature Materials, 2018, 17, 592-598.	27.5	89
12	Towards maximized utilization of iridium for the acidic oxygen evolution reaction. Nano Research, 2019, 12, 2275-2280.	10.4	89
13	Platinum recycling going green via induced surface potential alteration enabling fast and efficient dissolution. Nature Communications, 2016, 7, 13164.	12.8	55
14	The Space Confinement Approach Using Hollow Graphitic Spheres to Unveil Activity and Stability of Ptâ€Co Nanocatalysts for PEMFC. Advanced Energy Materials, 2017, 7, 1700835.	19.5	49
15	Addressing stability challenges of using bimetallic electrocatalysts: the case of goldâ€“palladium nanoalloys. Catalysis Science and Technology, 2017, 7, 1848-1856.	4.1	35
16	Atomically Defined Co₃O₄(111) Thin Films Prepared in Ultrahigh Vacuum: Stability under Electrochemical Conditions. Journal of Physical Chemistry C, 2018, 122, 7236-7248.	3.1	34
17	Stability and Activity of Nonâ€Nobleâ€Metalâ€Based Catalysts Toward the Hydrogen Evolution Reaction. Angewandte Chemie, 2017, 129, 9899-9903.	2.0	17
18	Dissolution of Platinum in the Operational Range of Fuel Cells. ChemElectroChem, 2015, 2, 1407-1407.	3.4	3