## Rodney D L Smith

List of Publications by Year in descending order

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567144 477173 3,092 34 15 29 citations h-index g-index papers 36 36 36 5157 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Photochemical Route for Accessing Amorphous Metal Oxide Materials for Water Oxidation Catalysis. Science, 2013, 340, 60-63.	6.0	1,321
2	Water Oxidation Catalysis: Electrocatalytic Response to Metal Stoichiometry in Amorphous Metal Oxide Films Containing Iron, Cobalt, and Nickel. Journal of the American Chemical Society, 2013, 135, 11580-11586.	6.6	817
3	Facile Photochemical Preparation of Amorphous Iridium Oxide Films for Water Oxidation Catalysis. Chemistry of Materials, 2014, 26, 1654-1659.	3.2	201
4	Spectroscopic identification of active sites for the oxygen evolution reaction on iron-cobalt oxides. Nature Communications, 2017, 8, 2022.	5.8	147
5	Accounting for the Dynamic Oxidative Behavior of Nickel Anodes. Journal of the American Chemical Society, 2016, 138, 1561-1567.	6.6	91
6	Geometric distortions in nickel (oxy)hydroxide electrocatalysts by redox inactive iron ions. Energy and Environmental Science, 2018, 11, 2476-2485.	15.6	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.	6.6	72
8	Nickel-iron catalysts for electrochemical water oxidation – redox synergism investigated by <i>in situ</i> X-ray spectroscopy with millisecond time resolution. Sustainable Energy and Fuels, 2018, 2, 1986-1994.	2.5	64
9	Mapping the performance of amorphous ternary metal oxide water oxidation catalysts containing aluminium. Journal of Materials Chemistry A, 2015, 3, 756-761.	5.2	48
10	Voltammetric quantification of the spontaneous chemical modification of carbon black by diazonium coupling. Electrochimica Acta, 2009, 54, 2305-2311.	2.6	43
11	Novel electroactive surface functionality from the coupling of an aryl diamine to carbon black. Electrochemistry Communications, 2009, 11, 10-13.	2.3	25
12	Nitrogen-rich polymers for the electrocatalytic reduction of CO2. Electrochemistry Communications, 2010, 12, 1749-1751.	2.3	22
13	On How Experimental Conditions Affect the Electrochemical Response of Disordered Nickel Oxyhydroxide Films. Chemistry of Materials, 2016, 28, 5635-5642.	3.2	22
14	Exploring the Limits of Self-Repair in Cobalt Oxide Films for Electrocatalytic Water Oxidation. ACS Catalysis, 2020, 10, 7990-7999.	5 <b>.</b> 5	21
15	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.	1.3	18
16	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.	1.9	16
17	Probing the Role of Internalized Geometric Strain on Heterogeneous Electrocatalysis. Chemistry of Materials, 2019, 31, 7522-7530.	3.2	14
18	Electrochemically Induced Phase Changes in La <sub>2</sub> CuO <sub>4</sub> During Cathodic Electrocatalysis. ChemElectroChem, 2019, 6, 5116-5123.	1.7	11

#	Article	IF	CITATIONS
19	Differentiating Defects and Their Influence on Hematite Photoanodes Using X-ray Absorption Spectroscopy and Raman Microscopy. ACS Applied Materials & Samp; Interfaces, 2022, 14, 6615-6624.	4.0	11
20	Structure–property correlations for analysis of heterogeneous electrocatalysts. Chemical Physics Reviews, 2021, 2, .	2.6	8
21	Identifying protons trapped in hematite photoanodes through structure–property analysis. Chemical Science, 2020, 11, 1085-1096.	3.7	7
22	Identification of non-traditional coordination environments for iron ions in nickel hydroxide lattices. Energy and Environmental Science, 2022, 15, 2638-2652.	15.6	7
23	Mechanistic insights into lepidocrocite conversion to hematite from variable temperature Raman microscopy. JPhys Energy, 2021, 3, 044002.	2.3	6
24	Evidence of Variations in Atomic Distribution in Disordered Mixed Metal Hydroxides. MRS Advances, 2019, 4, 1843-1850.	0.5	4
25	Analysis of Solid-State Reaction Mechanisms with Two-Dimensional Fourier Transform Infrared Correlation Spectroscopy. Inorganic Chemistry, 2021, 60, 2304-2314.	1.9	3
26	Mechanistic insights into the spontaneous reaction between CO2 and La2–xSrxCuO4. Canadian Journal of Chemistry, 2021, 99, 773-779.	0.6	3
27	Trapping a Photoelectron behind a Repulsive Coulomb Barrier in Solution. Journal of Physical Chemistry Letters, 2019, 10, 5742-5747.	2.1	2
28	Photochemical Route for the Preparation of Complex Amorphous Water Oxidation Catalyst. ECS Transactions, 2014, 58, 67-76.	0.3	1
29	Identification of Three Coexistent Defect Types in Hematite Photoanodes through Structure–Property Analysis. Energy Technology, 2022, 10, 2100181.	1.8	1
30	How Cation Substitutions Affect the Oxygen Reduction Reaction on La <sub>2â^x</sub> Sr <sub>x</sub> Ni <sub>1â^y</sub> Fe <sub>y</sub> O <sub>4</sub> . ChemCatChem, 2022, 14, .	1.8	1
31	Photochemical Route for the Preparation of Complex Amorphous Water Oxidation Catalyst. ECS Meeting Abstracts, 2013, , .	0.0	0
32	Asymmetric Strain in the Oxidized and Reduced States of Heterogeneous Electrocatalysts. ECS Meeting Abstracts, 2020, MA2020-01, 1780-1780.	0.0	0
33	Identifying Structural Defects in Hematite Photoanodes through Structure-Property Analysis. ECS Meeting Abstracts, 2020, MA2020-01, 1712-1712.	0.0	0
34	Correlating Raman and X-Ray Absorption Spectroscopy to Analyze Defects in Hematite Photoandoes. ECS Meeting Abstracts, 2022, MA2022-01, 1885-1885.	0.0	0