

Dusan Strmcnik

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

14,348
citations

136740

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223531

46
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48
all docs

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docs citations

48
times ranked

14705
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in activity for the water electrolyser reactions on 3d M(Ni,Co,Fe,Mn) hydr(oxy)oxide catalysts. Nature Materials, 2012, 11, 550-557.	13.3	2,423
2	Enhancing Hydrogen Evolution Activity in Water Splitting by Tailoring Li ⁺ -Ni(OH) ₂ -Pt Interfaces. Science, 2011, 334, 1256-1260.	6.0	2,385
3	Energy and fuels from electrochemical interfaces. Nature Materials, 2017, 16, 57-69.	13.3	1,484
4	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. Nature Chemistry, 2013, 5, 300-306.	6.6	945
5	Design of active and stable CoMoS _x chalcogels as pH-universal catalysts for the hydrogen evolution reaction. Nature Materials, 2016, 15, 197-203.	13.3	825
6	Design principles for hydrogen evolution reaction catalyst materials. Nano Energy, 2016, 29, 29-36.	8.2	629
7	Activity-Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. Journal of Physical Chemistry Letters, 2014, 5, 2474-2478.	2.1	569
8	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. Journal of the American Chemical Society, 2011, 133, 14396-14403.	6.6	541
9	Dynamic stability of active sites in hydr(oxy)oxides for the oxygen evolution reaction. Nature Energy, 2020, 5, 222-230.	19.8	540
10	Multimetallic Au/FePt ₃ Nanoparticles as Highly Durable Electrocatalyst. Nano Letters, 2011, 11, 919-926.	4.5	435
11	Using Surface Segregation To Design Stable RuO _x Oxides for the Oxygen Evolution Reaction in Acidic Environments. Angewandte Chemie - International Edition, 2014, 53, 14016-14021.	7.2	331
12	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. Nature Materials, 2012, 11, 1051-1058.	13.3	323
13	Enhanced electrocatalysis of the oxygen reduction reaction based on patterning of platinum surfaces with cyanide. Nature Chemistry, 2010, 2, 880-885.	6.6	284
14	Relationships between Atomic Level Surface Structure and Stability/Activity of Platinum Surface Atoms in Aqueous Environments. ACS Catalysis, 2016, 6, 2536-2544.	5.5	196
15	Monodisperse Pt ₃ Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. Journal of Physical Chemistry C, 2009, 113, 19365-19368.	1.5	192
16	Three Phase Interfaces at Electrified Metal-Solid Electrolyte Systems 1. Study of the Pt-Nafion Interface. Journal of Physical Chemistry C, 2010, 114, 8414-8422.	1.5	179
17	Recent advances in the design of tailored nanomaterials for efficient oxygen reduction reaction. Nano Energy, 2016, 29, 149-165.	8.2	177
18	Oxygen Reduction Reaction at Three-Phase Interfaces. ChemPhysChem, 2010, 11, 2825-2833.	1.0	165

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19	Dynamically Stable Active Sites from Surface Evolution of Perovskite Materials during the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 2741-2750.	6.6	156
20	Selective catalysts for the hydrogen oxidation and oxygen reduction reactions by patterning of platinum with calix[4]arene molecules. <i>Nature Materials</i> , 2010, 9, 998-1003.	13.3	151
21	Tuning the Reversibility of Mg Anodes via Controlled Surface Passivation by H_2O/Cl^- in Organic Electrolytes. <i>Chemistry of Materials</i> , 2016, 28, 8268-8277.	3.2	147
22	Electrocatalysis of the HER in acid and alkaline media. <i>Journal of the Serbian Chemical Society</i> , 2013, 78, 2007-2015.	0.4	141
23	Electrocatalytic transformation of HF impurity to H_2 and LiF in lithium-ion batteries. <i>Nature Catalysis</i> , 2018, 1, 255-262.	16.1	128
24	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. <i>Nature Materials</i> , 2020, 19, 1207-1214.	13.3	127
25	Promotion of the Oxidation of Carbon Monoxide at Stepped Platinum Single-Crystal Electrodes in Alkaline Media by Lithium and Beryllium Cations. <i>Journal of the American Chemical Society</i> , 2010, 132, 16127-16133.	6.6	124
26	Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015, 5, 6600-6607.	5.5	98
27	Hydrogen evolution reaction on copper: Promoting water dissociation by tuning the surface oxophilicity. <i>Electrochemistry Communications</i> , 2019, 100, 30-33.	2.3	72
28	Double layer effects in electrocatalysis: The oxygen reduction reaction and ethanol oxidation reaction on Au(1 1 1), Pt(1 1 1) and Ir(1 1 1) in alkaline media containing Na and Li cations. <i>Catalysis Today</i> , 2016, 262, 41-47.	2.2	67
29	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. <i>ACS Catalysis</i> , 2020, 10, 4990-4996.	5.5	43
30	Ultrafine Pt cluster and RuO_2 heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. <i>Nanoscale Horizons</i> , 2020, 5, 316-324.	4.1	34
31	Tuning the Selectivity and Activity of Electrochemical Interfaces with Defective Graphene Oxide and Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34517-34525.	4.0	29
32	Improved Rate for the Oxygen Reduction Reaction in a Sulfuric Acid Electrolyte using a Pt(111) Surface Modified with Melamine. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3369-3376.	4.0	29
33	When Small is Big: The Role of Impurities in Electrocatalysis. <i>Topics in Catalysis</i> , 2015, 58, 1174-1180.	1.3	26
34	Surface spectators and their role in relationships between activity and selectivity of the oxygen reduction reaction in acid environments. <i>Electrochemistry Communications</i> , 2015, 60, 30-33.	2.3	25
35	Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15909-15914.	1.5	25
36	Temperature-Induced Ordering of Metal/Adsorbate Structures at Electrochemical Interfaces. <i>Journal of the American Chemical Society</i> , 2009, 131, 7654-7661.	6.6	24

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37	The role of an interface in stabilizing reaction intermediates for hydrogen evolution in aprotic electrolytes. <i>Chemical Science</i> , 2020, 11, 3914-3922.	3.7	23
38	Thin Film Approach to Single Crystalline Electrochemistry. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23790-23796.	1.5	22
39	Anion Association Strength as a Unifying Descriptor for the Reversibility of Divalent Metal Deposition in Nonaqueous Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36137-36147.	4.0	22
40	Real-Time Monitoring of Cation Dissolution/Deintercalation Kinetics from Transition-Metal Oxides in Organic Environments. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4935-4940.	2.1	15
41	Detection of protons using the rotating ring disk electrode method during electrochemical oxidation of battery electrolytes. <i>Electrochemistry Communications</i> , 2020, 120, 106785.	2.3	1
42	Frontispiece: Using Surface Segregation To Design Stable Ru-Ir Oxides for the Oxygen Evolution Reaction in Acidic Environments. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	0