

Dusan Strmcnik

List of Publications by Citations

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44
papers

10,853
citations

30
h-index

48
g-index

48
ext. papers

12,640
ext. citations

13.7
avg, IF

6.2
L-index

#	Paper	IF	Citations
44	Trends in activity for the water electrolyser reactions on 3d M(Ni,Co,Fe,Mn) hydr(oxy)oxide catalysts. <i>Nature Materials</i> , 2012 , 11, 550-7	27	1910
43	Enhancing hydrogen evolution activity in water splitting by tailoring Li ⁺ -Ni(OH) ₂ /Pt interfaces. <i>Science</i> , 2011 , 334, 1256-60	33.3	1808
42	Energy and fuels from electrochemical interfaces. <i>Nature Materials</i> , 2016 , 16, 57-69	27	1064
41	Design of active and stable Co-Mo-S _x chalcogels as pH-universal catalysts for the hydrogen evolution reaction. <i>Nature Materials</i> , 2016 , 15, 197-203	27	683
40	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. <i>Nature Chemistry</i> , 2013 , 5, 300-6	17.6	675
39	Design and synthesis of bimetallic electrocatalyst with multilayered Pt-skin surfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14396-403	16.4	489
38	Design principles for hydrogen evolution reaction catalyst materials. <i>Nano Energy</i> , 2016 , 29, 29-36	17.1	437
37	Activity-Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2474-8	6.4	416
36	Multimetallic Au/FePt ₃ nanoparticles as highly durable electrocatalyst. <i>Nano Letters</i> , 2011 , 11, 919-26	11.5	400
35	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. <i>Nature Materials</i> , 2012 , 11, 1051-8	27	286
34	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, 14016-21	16.4	260
33	Enhanced electrocatalysis of the oxygen reduction reaction based on patterning of platinum surfaces with cyanide. <i>Nature Chemistry</i> , 2010 , 2, 880-5	17.6	243
32	Dynamic stability of active sites in hydr(oxy)oxides for the oxygen evolution reaction. <i>Nature Energy</i> , 2020 , 5, 222-230	62.3	241
31	Monodisperse Pt ₃ Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19365-19368	3.8	175
30	Recent advances in the design of tailored nanomaterials for efficient oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 29, 149-165	17.1	162
29	Relationships between Atomic Level Surface Structure and Stability/Activity of Platinum Surface Atoms in Aqueous Environments. <i>ACS Catalysis</i> , 2016 , 6, 2536-2544	13.1	146
28	Three Phase Interfaces at Electrified Metal/Solid Electrolyte Systems 1. Study of the Pt(hkl)/Nafion Interface. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8414-8422	3.8	143

27	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	27	125
26	Oxygen reduction reaction at three-phase interfaces. <i>ChemPhysChem</i> , 2010 , 11, 2825-33	3.2	125
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, 16127-33	16.4	107
24	Electrocatalysis of the HER in acid and alkaline media. <i>Journal of the Serbian Chemical Society</i> , 2013 , 78, 2007-2015	0.9	103
23	Tuning the Reversibility of Mg Anodes via Controlled Surface Passivation by H ₂ O/Cl ⁻ in Organic Electrolytes. <i>Chemistry of Materials</i> , 2016 , 28, 8268-8277	9.6	94
22	Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015 , 5, 6600-6607	13.1	92
21	Unique Electrochemical Adsorption Properties of Pt-Skin Surfaces. <i>Angewandte Chemie</i> , 2012 , 124, 3193-3196	31.96	88
20	Electrocatalytic transformation of HF impurity to H ₂ and LiF in lithium-ion batteries. <i>Nature Catalysis</i> , 2018 , 1, 255-262	36.5	83
19	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	5.3	61
18	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	16.4	58
17	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. <i>Nature Materials</i> , 2020 , 19, 1207-1214	27	57
16	Hydrogen evolution reaction on copper: Promoting water dissociation by tuning the surface oxophilicity. <i>Electrochemistry Communications</i> , 2019 , 100, 30-33	5.1	52
15	Using Surface Segregation To Design Stable Ru-Ir Oxides for the Oxygen Evolution Reaction in Acidic Environments. <i>Angewandte Chemie</i> , 2014 , 126, 14240-14245	3.6	37
14	When Small is Big: The Role of Impurities in Electrocatalysis. <i>Topics in Catalysis</i> , 2015 , 58, 1174-1180	2.3	23
13	Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15909-15914	3.8	23
12	Temperature-induced ordering of metal/adsorbate structures at electrochemical interfaces. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7654-61	16.4	22
11	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	10.8	22
10	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. <i>ACS Catalysis</i> , 2020 , 10, 4990-4996	3.1	21

9	Thin Film Approach to Single Crystalline Electrochemistry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23790-23796	3.8	21
8	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	5.1	20
7	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	9.5	17
6	The role of an interface in stabilizing reaction intermediates for hydrogen evolution in aprotic electrolytes. <i>Chemical Science</i> , 2020 , 11, 3914-3922	9.4	12
5	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	9.5	12
4	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	6.4	11
3	Tailoring the Selectivity and Stability of Chemically Modified Platinum Nanocatalysts To Design Highly Durable Anodes for PEM Fuel Cells. <i>Angewandte Chemie</i> , 2011 , 123, 5582-5586	3.6	10
2	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	9.5	10
1	Detection of protons using the rotating ring disk electrode method during electrochemical oxidation of battery electrolytes. <i>Electrochemistry Communications</i> , 2020 , 120, 106785	5.1	1