Nenad M Markovic

List of Publications by Year
in descending order

50 papers	14,211 citations	108046 37 h-index	150775 59 g-index
63 all docs	63 docs citations	63 times ranked	18117 citing authors

#	Article	IF	Citations
1	Increasing Ionic Conductivity of Poly(ethylene oxide) by Reaction with Metallic Li. Advanced Energy and Sustainability Research, 2022, 3, 2100142.	2.8	15
2	Theoretical evidence of water serving as a promoter for lithium superoxide disproportionation in Liâ€“O₂ batteries. Physical Chemistry Chemical Physics, 2021, 23, 10440-10447.	1.3	1
3	Dynamically Stable Active Sites from Surface Evolution of Perovskite Materials during the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2021, 143, 2741-2750.	6.6	156
4	Employing the Dynamics of the Electrochemical Interface in Aqueous Zincâ€Ion Battery Cathodes. Advanced Functional Materials, 2021, 31, 2102135.	7.8	34
5	Improved Rate for the Oxygen Reduction Reaction in a Sulfuric Acid Electrolyte using a Pt(111) Surface Modified with Melamine. ACS Applied Materials & Interfaces, 2021, 13, 3369-3376.	4.0	29
6	Ultrafine Pt cluster and RuO₂ heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. Nanoscale Horizons, 2020, 5, 316-324.	4.1	34
7	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. Nature Materials, 2020, 19, 1207-1214.	13.3	127
8	Active electrochemical interfaces stabilized through self-organized potential oscillations. Electrochemistry Communications, 2020, 121, 106853.	2.3	3
9	The role of an interface in stabilizing reaction intermediates for hydrogen evolution in aprotic electrolytes. Chemical Science, 2020, 11, 3914-3922.	3.7	23
10	Dynamic stability of active sites in hydr(oxy)oxides for the oxygen evolution reaction. Nature Energy, 2020, 5, 222-230.	19.8	540
11	Selective electrocatalysis imparted by metalâ€“insulator transition for durability enhancement of automotive fuel cells. Nature Catalysis, 2020, 3, 639-648.	16.1	79
12	Fundamental Insights from a Singleâ€Crystal Sodium Iridate Battery. Advanced Energy Materials, 2020, 10, 1903128.	10.2	9
13	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. ACS Catalysis, 2020, 10, 4990-4996.	5.5	43
14	Identical Location STEM analysis on La_{1âˆ’x}Sr_xCoO₃ Oxygen-Evolution Catalysts. Microscopy and Microanalysis, 2019, 25, 2052-2053.	0.2	1
15	Tuning the Selectivity and Activity of Electrochemical Interfaces with Defective Graphene Oxide and Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2019, 11, 34517-34525.	4.0	29
16	Dopantâ€Dependent Stability of Garnet Solid Electrolyte Interfaces with Lithium Metal. Advanced Energy Materials, 2019, 9, 1803440.	10.2	217
17	Electrocatalytic transformation of HF impurity to H2 and LiF in lithium-ion batteries. Nature Catalysis, 2018, 1, 255-262.	16.1	128
18	The Future of Electrochemistry. Electrochemistry, 2018, 86, 203-203.	0.6	1

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19	Real-Time Monitoring of Cation Dissolution/Deintercalation Kinetics from Transition-Metal Oxides in Organic Environments. Journal of Physical Chemistry Letters, 2018, 9, 4935-4940.	2.1	15
20	Stabilization of ultrathin (hydroxy)oxide films on transition metal substrates for electrochemical energy conversion. Nature Energy, 2017, 2, .	19.8	167
21	High-Performance Rh₂P Electrocatalyst for Efficient Water Splitting. Journal of the American Chemical Society, 2017, 139, 5494-5502.	6.6	343
22	Energy and fuels from electrochemical interfaces. Nature Materials, 2017, 16, 57-69.	13.3	1,484
23	Control of Architecture in Rhombic Dodecahedral Ptâ€“Ni Nanoframe Electrocatalysts. Journal of the American Chemical Society, 2017, 139, 11678-11681.	6.6	166
24	Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen evolution catalysts. Nature Communications, 2017, 8, 1449.	5.8	250
25	Progress in the Development of Oxygen Reduction Reaction Catalysts for Low-Temperature Fuel Cells. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 509-532.	3.3	46
26	Evidence for Decoupled Electron and Proton Transfer in the Electrochemical Oxidation of Ammonia on Pt(100). Journal of Physical Chemistry Letters, 2016, 7, 387-392.	2.1	57
27	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
28	Design of active and stable Coâ€“Moâ€“Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction. Nature Materials, 2016, 15, 197-203.	13.3	825
29	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. Catalysis Today, 2016, 262, 41-47.	2.2	67
30	Atomic Structure of Pt₃Ni Nanoframe Electrocatalysts by <i>in Situ</i> X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2015, 137, 15817-15824.	6.6	197
31	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. ACS Nano, 2015, 9, 8194-8205.	7.3	181
32	When Small is Big: The Role of Impurities in Electrocatalysis. Topics in Catalysis, 2015, 58, 1174-1180.	1.3	26
33	Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing. Nature Communications, 2015, 6, 8925.	5.8	159
34	Frontispiece: Using Surface Segregation To Design Stable Ru-Ir Oxides for the Oxygen Evolution Reaction in Acidic Environments. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	7.2	0
35	Functional links between Pt single crystal morphology and nanoparticles with different size and shape: the oxygen reduction reaction case. Energy and Environmental Science, 2014, 7, 4061-4069.	15.6	205
36	Activityâ€“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

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37	Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution. Nature Communications, 2014, 5, 4191.	5.8	252
38	Using Surface Segregation To Design Stable Ruâ€•Ir Oxides for the Oxygen Evolution Reaction in Acidic Environments. Angewandte Chemie - International Edition, 2014, 53, 14016-14021.	7.2	331
39	Thin Film Approach to Single Crystalline Electrochemistry. Journal of Physical Chemistry C, 2013, 117, 23790-23796.	1.5	22
40	Single crystalline thin films as a novel class of electrocatalysts. Journal of the Serbian Chemical Society, 2013, 78, 1689-1702.	0.4	3
41	Electrocatalysis of the HER in acid and alkaline media. Journal of the Serbian Chemical Society, 2013, 78, 2007-2015.	0.4	141
42	Surfactant Removal for Colloidal Nanoparticles from Solution Synthesis: The Effect on Catalytic Performance. ACS Catalysis, 2012, 2, 1358-1362.	5.5	426
43	The road from animal electricity to green energy: combining experiment and theory in electrocatalysis. Energy and Environmental Science, 2012, 5, 9246.	15.6	224
44	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
45	Enhancing Hydrogen Evolution Activity in Water Splitting by Tailoring Li ⁺ -Ni(OH) ₂ -Pt Interfaces. Science, 2011, 334, 1256-1260.	6.0	2,385
46	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. ACS Catalysis, 2011, 1, 1355-1359.	5.5	124
47	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt_{<i>x</i>}Ni_{1â€<i>x</i>} Nanoparticles. Advanced Functional Materials, 2011, 21, 147-152.	7.8	218
48	Monodisperse Pt₃Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. Journal of Physical Chemistry C, 2009, 113, 19365-19368.	1.5	192
49	Cover Picture: Changing the Activity of Electrocatalysts for Oxygen Reduction by Tuning the Surface Electronic Structure (Angew. Chem. Int. Ed. 18/2006). Angewandte Chemie - International Edition, 2006, 45, 2815-2815.	7.2	12
50	Electrochemistry at Well-Characterized Bimetallic Surfaces. , 0, , 245-269.		2