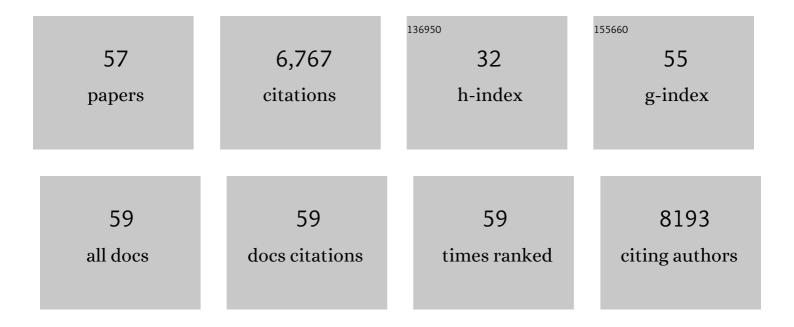
Nemanja Danilovic

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. Nature Chemistry, 2013, 5, 300-306.	13.6	945
2	Design of active and stable Co–Mo–Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction. Nature Materials, 2016, 15, 197-203.	27.5	825
3	Dynamic surface self-reconstruction is the key of highly active perovskite nano-electrocatalysts for water splitting. Nature Materials, 2017, 16, 925-931.	27.5	696
4	Activity–Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. Journal of Physical Chemistry Letters, 2014, 5, 2474-2478.	4.6	569
5	Fe (Oxy)hydroxide Oxygen Evolution Reaction Electrocatalysis: Intrinsic Activity and the Roles of Electrical Conductivity, Substrate, and Dissolution. Chemistry of Materials, 2015, 27, 8011-8020.	6.7	395
6	Using Surface Segregation To Design Stable Ruâ€ŀr Oxides for the Oxygen Evolution Reaction in Acidic Environments. Angewandte Chemie - International Edition, 2014, 53, 14016-14021.	13.8	331
7	Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution. Nature Communications, 2014, 5, 4191.	12.8	252
8	Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen evolution catalysts. Nature Communications, 2017, 8, 1449.	12.8	250
9	Perspectives on Low-Temperature Electrolysis and Potential for Renewable Hydrogen at Scale. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 219-239.	6.8	223
10	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. Nature Nanotechnology, 2019, 14, 1071-1074.	31.5	209
11	Earth-Abundant Oxygen Electrocatalysts for Alkaline Anion-Exchange-Membrane Water Electrolysis: Effects of Catalyst Conductivity and Comparison with Performance in Three-Electrode Cells. ACS Catalysis, 2019, 9, 7-15.	11.2	189
12	Electrocatalysis of the HER in acid and alkaline media. Journal of the Serbian Chemical Society, 2013, 78, 2007-2015.	0.8	141
13	Nano-size IrOx catalyst of high activity and stability in PEM water electrolyzer with ultra-low iridium loading. Applied Catalysis B: Environmental, 2018, 239, 133-146.	20.2	131
14	Pathways to ultra-low platinum group metal catalyst loading in proton exchange membrane electrolyzers. Catalysis Today, 2016, 262, 121-132.	4.4	129
15	Calculating the Electrochemically Active Surface Area of Iridium Oxide in Operating Proton Exchange Membrane Electrolyzers. Journal of the Electrochemical Society, 2015, 162, F1292-F1298.	2.9	88
16	Activity–stability relationship in the surface electrochemistry of the oxygen evolution reaction. Faraday Discussions, 2014, 176, 125-133.	3.2	83
17	Structural basis for differing electrocatalytic water oxidation by the cubic, layered and spinel forms of lithium cobalt oxides. Energy and Environmental Science, 2016, 9, 184-192.	30.8	81
18	Initial approaches in benchmarking and round robin testing for proton exchange membrane water electrolyzers. International Journal of Hydrogen Energy, 2019, 44, 9174-9187.	7.1	80

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19	Origin of Anomalous Activities for Electrocatalysts in Alkaline Electrolytes. Journal of Physical Chemistry C, 2012, 116, 22231-22237.	3.1	71
20	Correlation of Fuel Cell Anode Electrocatalytic and ex situ Catalytic Activity of Perovskites La _{0.75} Sr _{0.25} Cr _{0.5} X _{0.5} O _{3â~Î} (X = Ti, Mn, Fe,)	Тј ℰ. 7РQq0	0 @sgBT /Ove
21	Highly Active Nanoperovskite Catalysts for Oxygen Evolution Reaction: Insights into Activity and Stability of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{2+δ} and PrBaCo ₂ O _{5+δ} . Advanced Functional Materials, 2018, 28, 1804355.	14.9	63
22	The Effect of Noncovalent Interactions on the HOR, ORR, and HER on Ru, Ir, and Ru0.50Ir0.50 Metal Surfaces in Alkaline Environments. Electrocatalysis, 2012, 3, 221-229.	3.0	59
23	A low temperature unitized regenerative fuel cell realizing 60% round trip efficiency and 10 000 cycles of durability for energy storage applications. Energy and Environmental Science, 2020, 13, 2096-2105.	30.8	57
24	Pathway to Complete Energy Sector Decarbonization with Available Iridium Resources using Ultralow Loaded Water Electrolyzers. ACS Applied Materials & Interfaces, 2020, 12, 52701-52712.	8.0	52
25	Elucidating effects of catalyst loadings and porous transport layer morphologies on operation of proton exchange membrane water electrolyzers. Applied Catalysis B: Environmental, 2022, 308, 121213.	20.2	48
26	Ce0.9Sr0.1VOx (x=3, 4) as anode materials for H2S-containing CH4 fueled solid oxide fuel cells. Journal of Power Sources, 2009, 192, 247-257.	7.8	45
27	Interfacial analysis of a PEM electrolyzer using X-ray computed tomography. Sustainable Energy and Fuels, 2020, 4, 921-931.	4.9	44
28	Hierarchical electrode design of highly efficient and stable unitized regenerative fuel cells (URFCs) for long-term energy storage. Energy and Environmental Science, 2020, 13, 4872-4881.	30.8	43
29	Insights into Interfacial and Bulk Transport Phenomena Affecting Proton Exchange Membrane Water Electrolyzer Performance at Ultra‣ow Iridium Loadings. Advanced Science, 2021, 8, e2102950.	11.2	41
30	Nanoporous Iridium Nanosheets for Polymer Electrolyte Membrane Electrolysis. Advanced Energy Materials, 2021, 11, 2101438.	19.5	40
31	Observation of Preferential Pathways for Oxygen Removal through Porous Transport Layers of Polymer Electrolyte Water Electrolyzers. IScience, 2020, 23, 101783.	4.1	39
32	(Plenary) Challenges in Going from Laboratory to Megawatt Scale PEM Electrolysis. ECS Transactions, 2016, 75, 395-402.	0.5	34
33	The Role of Water in Vapor-fed Proton-Exchange-Membrane Electrolysis. Journal of the Electrochemical Society, 2020, 167, 104508.	2.9	34
34	Effect of substitution with Cr3+ and addition of Ni on the physical and electrochemical properties of Ce0.9Sr0.1VO3 as a H2S-active anode for solid oxide fuel cells. Journal of Power Sources, 2009, 194, 252-262.	7.8	33
35	Supported Oxygen Evolution Catalysts by Design: Toward Lower Precious Metal Loading and Improved Conductivity in Proton Exchange Membrane Water Electrolyzers. ACS Catalysis, 2020, 10, 13125-13135.	11.2	33
36	An integral proton conducting SOFC for simultaneous production of ethylene and power from ethane. Chemical Communications, 2010, 46, 2052.	4.1	31

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37	Mechanistic understanding of pH effects on the oxygen evolution reaction. Electrochimica Acta, 2022, 405, 139810.	5.2	31
38	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Anolyte. Journal of the Electrochemical Society, 2021, 168, 084512.	2.9	28
39	Integrated Membrane-Electrode-Assembly Photoelectrochemical Cell under Various Feed Conditions for Solar Water Splitting. Journal of the Electrochemical Society, 2019, 166, H3020-H3028.	2.9	25
40	Thin Film Approach to Single Crystalline Electrochemistry. Journal of Physical Chemistry C, 2013, 117, 23790-23796.	3.1	22
41	Application of X-ray photoelectron spectroscopy to studies of electrodes in fuel cells and electrolyzers. Journal of Electron Spectroscopy and Related Phenomena, 2019, 231, 127-139.	1.7	21
42	PEM Electrolysis, a Forerunner for Clean Hydrogen. Electrochemical Society Interface, 2021, 30, 67-72.	0.4	20
43	An Algorithm for the Extraction of Tafel Slopes. Journal of Physical Chemistry C, 2019, 123, 30252-30264.	3.1	19
44	Editors' Choice—A Monolithic Photoelectrochemical Device Evolving Hydrogen in Pure Water. Journal of the Electrochemical Society, 2019, 166, H656-H661.	2.9	16
45	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Catholyte. Journal of the Electrochemical Society, 2022, 169, 024510.	2.9	15
46	Membraneâ€electrode assembly design parameters for optimal CO ₂ reduction. Electrochemical Science Advances, 2023, 3, .	2.8	14
47	Emergent Degradation Phenomena Demonstrated on Resilient, Flexible, and Scalable Integrated Photoelectrochemical Cells. Advanced Energy Materials, 2020, 10, 2002706.	19.5	8
48	Longâ€Term Operation of Nbâ€Coated Stainless Steel Bipolar Plates for Proton Exchange Membrane Water Electrolyzers. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	8
49	Determining the Electrochemically Active Area of IrO _x Powder Catalysts in an Operating Proton Exchange Membrane Electrolyzer. ECS Transactions, 2015, 69, 877-881.	0.5	6
50	Mass-Transport Resistances of Acid and Alkaline Ionomer Layers: A Microelectrode Study Part 1 - Microelectrode Development. ECS Transactions, 2019, 92, 77-85.	0.5	6
51	Performance and Durability of Proton Exchange Membrane Vapor-Fed Unitized Regenerative Fuel Cells. Journal of the Electrochemical Society, 2022, 169, 054514.	2.9	6
52	Method—Using Microelectrodes to Explore Solid Polymer Electrolytes. Journal of the Electrochemical Society, 2021, 168, 056517.	2.9	5
53	fuelcell: A Python package and graphical user interface for electrochemical data analysis. Journal of Open Source Software, 2021, 6, 2940.	4.6	2
54	Hydrogen's Big Shot. Electrochemical Society Interface, 2021, 30, 40-41.	0.4	1

#	Article	IF	CITATIONS
55	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.	13.8	Ο
56	Water Splitting: Emergent Degradation Phenomena Demonstrated on Resilient, Flexible, and Scalable Integrated Photoelectrochemical Cells (Adv. Energy Mater. 48/2020). Advanced Energy Materials, 2020, 10, 2070197.	19.5	0
57	Influence of Proton Activity in H ₂ /H ₂ Cells: Implications for Fuel-Cell Operation with Low Relative Humidities. Journal of the Electrochemical Society, 2021, 168, 064509.	2.9	0