Nemanja Danilovic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26 4,565 54 59 h-index g-index citations papers 5,587 10.4 5.4 59 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
54	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Catholyte. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 024510	3.9	2
53	Mechanistic understanding of pH effects on the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2022 , 405, 139810	6.7	3
52	Elucidating effects of catalyst loadings and porous transport layer morphologies on operation of proton exchange membrane water electrolyzers. <i>Applied Catalysis B: Environmental</i> , 2022 , 308, 121213	21.8	4
51	Performance and Durability of Proton Exchange Membrane Vapor-Fed Unitized Regenerative Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 054514	3.9	О
50	fuelcell: A Python package and graphical user interface for electrochemical data analysis. <i>Journal of Open Source Software</i> , 2021 , 6, 2940	5.2	1
49	MethodDsing Microelectrodes to Explore Solid Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 056517	3.9	1
48	Influence of Proton Activity in H2/H2 Cells: Implications for Fuel-Cell Operation with Low Relative Humidities. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 064509	3.9	
47	Nanoporous Iridium Nanosheets for Polymer Electrolyte Membrane Electrolysis. <i>Advanced Energy Materials</i> , 2021 , 11, 2101438	21.8	7
46	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Anolyte. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 084512	3.9	6
45	Insights into Interfacial and Bulk Transport Phenomena Affecting Proton Exchange Membrane Water Electrolyzer Performance at Ultra-Low Iridium Loadings. <i>Advanced Science</i> , 2021 , 8, e2102950	13.6	4
44	A low temperature unitized regenerative fuel cell realizing 60% round trip efficiency and 10 000 cycles of durability for energy storage applications. <i>Energy and Environmental Science</i> , 2020 , 13, 2096-2	1ð5 ^{:4}	25
43	Interfacial analysis of a PEM electrolyzer using X-ray computed tomography. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 921-931	5.8	14
42	The Role of Water in Vapor-fed Proton-Exchange-Membrane Electrolysis. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 104508	3.9	15
41	Pathway to Complete Energy Sector Decarbonization with Available Iridium Resources using Ultralow Loaded Water Electrolyzers. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 52701-52712	9.5	16
40	Observation of Preferential Pathways for Oxygen Removal through Porous Transport Layers of Polymer Electrolyte Water Electrolyzers. <i>IScience</i> , 2020 , 23, 101783	6.1	8
39	Emergent Degradation Phenomena Demonstrated on Resilient, Flexible, and Scalable Integrated Photoelectrochemical Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2002706	21.8	3
38	Hierarchical electrode design of highly efficient and stable unitized regenerative fuel cells (URFCs) for long-term energy storage. <i>Energy and Environmental Science</i> , 2020 , 13, 4872-4881	35.4	14

Supported Oxygen Evolution Catalysts by Design: Toward Lower Precious Metal Loading and 37 Improved Conductivity in Proton Exchange Membrane Water Electrolyzers. ACS Catalysis, 2020, 10, 131253 131354 Water Splitting: Emergent Degradation Phenomena Demonstrated on Resilient, Flexible, and Scalable Integrated Photoelectrochemical Cells (Adv. Energy Mater. 48/2020). Advanced Energy 36 21.8 Materials, **2020**, 10, 2070197 EditorsTChoice Monolithic Photoelectrochemical Device Evolving Hydrogen in Pure Water. 3.9 10 35 Journal of the Electrochemical Society, 2019, 166, H656-H661 Perspectives on Low-Temperature Electrolysis and Potential for Renewable Hydrogen at Scale. 8.9 118 34 Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 219-239 Initial approaches in benchmarking and round robin testing for proton exchange membrane water 6.7 48 33 electrolyzers. International Journal of Hydrogen Energy, 2019, 44, 9174-9187 An Algorithm for the Extraction of Tafel Slopes. Journal of Physical Chemistry C, 2019, 123, 30252-30264 3.8 32 A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane 28.7 87 31 electrolyser. Nature Nanotechnology, 2019, 14, 1071-1074 Mass-Transport Resistances of Acid and Alkaline Ionomer Layers: A Microelectrode Study Part 1 -Microelectrode Development. ECS Transactions, 2019, 92, 77-85 Integrated Membrane-Electrode-Assembly Photoelectrochemical Cell under Various Feed 29 3.9 20 Conditions for Solar Water Splitting. Journal of the Electrochemical Society, 2019, 166, H3020-H3028 Earth-Abundant Oxygen Electrocatalysts for Alkaline Anion-Exchange-Membrane Water 28 Electrolysis: Effects of Catalyst Conductivity and Comparison with Performance in Three-Electrode 89 13.1 Cells. ACS Catalysis, 2019, 9, 7-15 Application of X-ray photoelectron spectroscopy to studies of electrodes in fuel cells and 27 1.7 13 electrolyzers. Journal of Electron Spectroscopy and Related Phenomena, 2019, 231, 127-139 Nano-size IrOx catalyst of high activity and stability in PEM water electrolyzer with ultra-low iridium 26 21.8 72 loading. Applied Catalysis B: Environmental, 2018, 239, 133-146 Highly Active Nanoperovskite Catalysts for Oxygen Evolution Reaction: Insights into Activity and Stability of Ba0.5Sr0.5Co0.8Fe0.2O2+land PrBaCo2O5+ll Advanced Functional Materials, 2018, 28, 1804355.6 25 41 Dynamic surface self-reconstruction is the key of highly active perovskite nano-electrocatalysts for 27 467 24 water splitting. Nature Materials, 2017, 16, 925-931 Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen 168 23 17.4 evolution catalysts. Nature Communications, 2017, 8, 1449 Pathways to ultra-low platinum group metal catalyst loading in proton exchange membrane 22 93 5.3 electrolyzers. Catalysis Today, 2016, 262, 121-132 Design of active and stable Co-Mo-Sx chalcogels as pH-universal catalysts for the hydrogen 683 21 27 evolution reaction. Nature Materials, 2016, 15, 197-203 Structural basis for differing electrocatalytic water oxidation by the cubic, layered and spinel forms 20 64 35.4 of lithium cobalt oxides. Energy and Environmental Science, 2016, 9, 184-192

19	(Plenary) Challenges in Going from Laboratory to Megawatt Scale PEM Electrolysis. <i>ECS Transactions</i> , 2016 , 75, 395-402	1	25
18	Calculating the Electrochemically Active Surface Area of Iridium Oxide in Operating Proton Exchange Membrane Electrolyzers. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1292-F1298	3.9	56
17	Determining the Electrochemically Active Area of IrOx Powder Catalysts in an Operating Proton Exchange Membrane Electrolyzer. <i>ECS Transactions</i> , 2015 , 69, 877-881	1	4
16	Fe (Oxy)hydroxide Oxygen Evolution Reaction Electrocatalysis: Intrinsic Activity and the Roles of Electrical Conductivity, Substrate, and Dissolution. <i>Chemistry of Materials</i> , 2015 , 27, 8011-8020	9.6	307
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	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
13	Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution. <i>Nature Communications</i> , 2014 , 5, 4191	17.4	208
12	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
11	Activity-stability relationship in the surface electrochemistry of the oxygen evolution reaction. <i>Faraday Discussions</i> , 2014 , 176, 125-33	3.6	65
10	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. <i>Nature Chemistry</i> , 2013 , 5, 300-6	17.6	675
9	Thin Film Approach to Single Crystalline Electrochemistry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23790-23796	3.8	21
8	Electrocatalysis of the HER in acid and alkaline media. <i>Journal of the Serbian Chemical Society</i> , 2013 , 78, 2007-2015	0.9	103
7	The Effect of Noncovalent Interactions on the HOR, ORR, and HER on Ru, Ir, and Ru0.50Ir0.50 Metal Surfaces in Alkaline Environments. <i>Electrocatalysis</i> , 2012 , 3, 221-229	2.7	49
6	Origin of Anomalous Activities for Electrocatalysts in Alkaline Electrolytes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22231-22237	3.8	61
5	An integral proton conducting SOFC for simultaneous production of ethylene and power from ethane. <i>Chemical Communications</i> , 2010 , 46, 2052-4	5.8	26
4	Correlation of Fuel Cell Anode Electrocatalytic and ex situ Catalytic Activity of Perovskites La0.75Sr0.25Cr0.5X0.5O3[[X = Ti, Mn, Fe, Co). <i>Chemistry of Materials</i> , 2010 , 22, 957-965	9.6	60
3	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. <i>Journal of Power Sources</i> , 2009 , 194, 252-262	8.9	32
2	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	8.9	43

Long-Term Operation of Nb-Coated Stainless Steel Bipolar Plates for Proton Exchange Membrane Water Electrolyzers. *Advanced Energy and Sustainability Research*,2200024

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