

Pawel Gazdzicki

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosized IrO ₂ Ir Catalyst with Relevant Activity for Anodes of Proton Exchange Membrane Electrolysis Produced by a Cost-Effective Procedure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 742-746.	13.8	173
2	Protective coatings on stainless steel bipolar plates for proton exchange membrane (PEM) electrolyzers. <i>Journal of Power Sources</i> , 2016, 307, 815-825.	7.8	131
3	Highly active anode electrocatalysts derived from electrochemical leaching of Ru from metallic Ir 0.7 Ru 0.3 for proton exchange membrane electrolyzers. <i>Nano Energy</i> , 2017, 34, 385-391.	16.0	106
4	Evaluation of reversible and irreversible degradation rates of polymer electrolyte membrane fuel cells tested in automotive conditions. <i>Journal of Power Sources</i> , 2016, 327, 86-95.	7.8	74
5	Physical modeling of polymer-electrolyte membrane fuel cells: Understanding water management and impedance spectra. <i>Journal of Power Sources</i> , 2018, 391, 148-161.	7.8	59
6	Nanostructured Ir-supported on Ti ₄ O ₇ as a cost-effective anode for proton exchange membrane (PEM) electrolyzers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4487-4495.	2.8	52
7	Improving the activity and stability of Ir catalysts for PEM electrolyzer anodes by SnO ₂ :Sb aerogel supports: does V addition play an active role in electrocatalysis?. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3172-3178.	10.3	50
8	Toward developing accelerated stress tests for proton exchange membrane electrolyzers. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 225-233.	4.8	50
9	Exploring the Interface of Skin-Layered Titanium Fibers for Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2002926.	19.5	48
10	Minimizing mass-transport loss in proton exchange membrane fuel cell by freeze-drying of cathode catalyst layers. <i>Journal of Power Sources</i> , 2019, 427, 309-317.	7.8	43
11	A review of functions, attributes, properties and measurements for the quality control of proton exchange membrane fuel cell components. <i>Journal of Power Sources</i> , 2021, 491, 229540.	7.8	42
12	Methanol as antifreeze agent for cold start of automotive polymer electrolyte membrane fuel cells. <i>Applied Energy</i> , 2019, 238, 1-10.	10.1	39
13	Comparative investigation into the performance and durability of long and short side chain ionomers in Polymer Electrolyte Membrane Fuel Cells. <i>Journal of Power Sources</i> , 2019, 439, 227078.	7.8	37
14	Review on mechanisms and recovery procedures for reversible performance losses in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 488, 229375.	7.8	34
15	Reactions of Methanol on Ru(0001). <i>Journal of Physical Chemistry C</i> , 2010, 114, 2655-2663.	3.1	28
16	Low Cost Bipolar Plates for Large Scale PEM Electrolyzers. <i>ECS Transactions</i> , 2014, 64, 1039-1048.	0.5	28
17	Stress analysis of ultra-thin silicon chip-on-foil electronic assembly under bending. <i>Semiconductor Science and Technology</i> , 2014, 29, 095007.	2.0	26
18	Local resolved investigation of hydrogen crossover in polymer electrolyte fuel cell. <i>Energy</i> , 2017, 128, 357-365.	8.8	26

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19	Experimental and numerical study on catalyst layer of polymer electrolyte membrane fuel cell prepared with diverse drying methods. <i>Journal of Power Sources</i> , 2020, 461, 228169.	7.8	25
20	Investigation of activity and stability of carbon supported oxynitrides with ultra-low Pt concentration as ORR catalyst for PEM fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 312-321.	3.8	24
21	Influence of the Distribution of Platinum Deposits on the Properties and Degradation of Platinum-Impregnated Nafion Membranes. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1416-F1426.	2.9	23
22	Deciphering the Exceptional Performance of NiFe Hydroxide for the Oxygen Evolution Reaction in an Anion Exchange Membrane Electrolyzer. <i>ACS Applied Energy Materials</i> , 2022, 5, 2221-2230.	5.1	22
23	Oxygen adsorption on Pt/Ru(0001) layers. <i>Journal of Chemical Physics</i> , 2011, 134, 224707.	3.0	18
24	Mitigated Start-Up of PEMFC in Real Automotive Conditions: Local Experimental Investigation and Development of a New Accelerated Stress Test Protocol. <i>Journal of the Electrochemical Society</i> , 2021, 168, 054501.	2.9	18
25	Adsorption of intact methanol on Ru(0001). <i>Journal of Chemical Physics</i> , 2009, 130, 224703.	3.0	14
26	Towards Replacing Titanium with Copper in the Bipolar Plates for Proton Exchange Membrane Water Electrolysis. <i>Materials</i> , 2022, 15, 1628.	2.9	13
27	Oxidation of Methanol on Oxygen Covered Pt _n /Ru(0001) Layers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23013-23022.	3.1	10
28	Advancement of Segmented Cell Technology in Low Temperature Hydrogen Technologies. <i>Energies</i> , 2020, 13, 2301.	3.1	10
29	Methanol Oxidation on Monolayer Cu/Ru(0001). <i>Journal of Physical Chemistry C</i> , 2011, 115, 16555-16566.	3.1	8
30	Long-Term Operation of Nb-Coated Stainless Steel Bipolar Plates for Proton Exchange Membrane Water Electrolyzers. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	8
31	Reactions of Methanol on Clean and Oxygen-Covered Pt _x Ru _{1-x} /Ru(0001) Surface Alloys. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25379-25388.	3.1	7
32	Formation of Methoxy on Cu/Ru(0001) Layers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1961-1968.	3.1	6
33	Modification of gas diffusion layers properties to improve water management. <i>Materials for Renewable and Sustainable Energy</i> , 2017, 6, 1.	3.6	6
34	Methanol reactions on bimetallic Ru(0001)-based surfaces under UHV conditions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1460-1470.	2.8	5
35	Adsorption of CO on bimetallic RhN/Ru(0001) layers. <i>Surface Science</i> , 2014, 623, 29-40.	1.9	4
36	Exploring critical parameters of electrode fabrication in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 540, 231638.	7.8	3

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37	Failure mode diagnosis in proton exchange membrane fuel cells using local electrochemical noise. Journal of Power Sources, 2022, 541, 231582.	7.8	3
38	Improved Water Management with Thermally Sprayed Coatings on Stainless Steel Bipolar Plates of PEMFC. ECS Transactions, 2015, 69, 223-239.	0.5	2