

Nancy N Kariuki

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,106
citations

471509

17
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of a high oxygen permeability ionomer into polymer electrolyte membrane fuel cell cathodes for high efficiency and power density. <i>Journal of Power Sources</i> , 2022, 522, 230821.	7.8	15
2	Recreating Fuel Cell Catalyst Degradation in Aqueous Environments for Identical-Location Scanning Transmission Electron Microscopy Studies. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20418-20429.	8.0	15
3	Electrolyzer Performance Loss from Accelerated Stress Tests and Corresponding Changes to Catalyst Layers and Interfaces. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054517.	2.9	14
4	Tailoring electrode microstructure via ink content to enable improved rated power performance for platinum cobalt/high surface area carbon based polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2021, 482, 228889.	7.8	40
5	Editors' Choice™ Ionomer Side Chain Length and Equivalent Weight Impact on High Current Density Transport Resistances in PEMFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 024518.	2.9	23
6	Degradation of Platinum-Cobalt Alloy PEMFC Cathode Catalysts in Catalyst-Ionomer Inks. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044510.	2.9	11
7	Effect of Particle Size on the Dissolution of Pt ₃ Co/C and Pt/C PEMFC Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2021, 168, 054516.	2.9	4
8	Impact of Nickel Ions on the Oxygen Reduction Reaction Kinetics of Pt and on Oxygen Diffusion through Ionomer Thin Films. <i>Journal of the Electrochemical Society</i> , 2021, 168, 064505.	2.9	1
9	Nanoporous Iridium Nanosheets for Polymer Electrolyte Membrane Electrolysis. <i>Advanced Energy Materials</i> , 2021, 11, 2101438.	19.5	40
10	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.	30.8	43
11	Coupling High-Throughput Experiments and Regression Algorithms to Optimize PGM-Free ORR Electrocatalyst Synthesis. <i>ACS Applied Energy Materials</i> , 2020, 3, 9083-9088.	5.1	30
12	Impact of Catalyst Ink Dispersing Methodology on Fuel Cell Performance Using in-Situ X-ray Scattering. <i>ACS Applied Energy Materials</i> , 2019, 2, 6417-6427.	5.1	104
13	Elucidating the Dynamic Nature of Fuel Cell Electrodes as a Function of Conditioning: An ex Situ Material Characterization and in Situ Electrochemical Diagnostic Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45016-45030.	8.0	96
14	Investigation of the Microstructure and Rheology of Iridium Oxide Catalyst Inks for Low-Temperature Polymer Electrolyte Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45068-45079.	8.0	34
15	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46953-46964.	8.0	80
16	Electrochemical Degradation of Pt-Ni Nanocatalysts: An Identical Location Aberration-Corrected Scanning Transmission Electron Microscopy Study. <i>Nano Letters</i> , 2019, 19, 46-53.	9.1	25
17	Potential Dependence of Pt and Co Dissolution from Platinum-Cobalt Alloy PEFC Catalysts Using Time-Resolved Measurements. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3024-F3035.	2.9	65
18	Rheological Investigation on the Microstructure of Fuel Cell Catalyst Inks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43610-43622.	8.0	96

#	ARTICLE	IF	CITATIONS
19	Best Practices and Testing Protocols for Benchmarking ORR Activities of Fuel Cell Electrocatalysts Using Rotating Disk Electrode. <i>Electrocatalysis</i> , 2017, 8, 366-374.	3.0	121
20	Pt Catalyst Degradation in Aqueous and Fuel Cell Environments studied via In-Operando Anomalous Small-Angle X-ray Scattering. <i>Electrochimica Acta</i> , 2015, 173, 223-234.	5.2	57
21	In-Operando Anomalous Small-Angle X-Ray Scattering Investigation of Pt ₃ Co Catalyst Degradation in Aqueous and Fuel Cell Environments. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1487-F1497.	2.9	27
22	Dynamics of Particle Growth and Electrochemical Surface Area Loss due to Platinum Dissolution. <i>Journal of the Electrochemical Society</i> , 2014, 161, F291-F304.	2.9	90
23	In Situ Anomalous Small-Angle X-ray Scattering Studies of Platinum Nanoparticle Fuel Cell Electrocatalyst Degradation. <i>Journal of the American Chemical Society</i> , 2012, 134, 14823-14833.	13.7	75
24	Glancing Angle Deposited Platinum Nanorod Arrays for Oxygen Reduction Reaction. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1311, 26201.	0.1	0