

Iryna V Zenyuk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3167322/publications.pdf>

Version: 2024-02-01

133
papers

3,967
citations

117571

34
h-index

133188

59
g-index

135
all docs

135
docs citations

135
times ranked

3051
citing authors

#	ARTICLE	IF	CITATIONS
1	A Critical Review of Modeling Transport Phenomena in Polymer-Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1254-F1299.	1.3	444
2	Identification of durable and non-durable Fe _{Nx} sites in Fe-N-C materials for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2021, 4, 10-19.	16.1	368
3	Gas-diffusion-layer structural properties under compression via X-ray tomography. <i>Journal of Power Sources</i> , 2016, 328, 364-376.	4.0	204
4	Platinum group metal-free NiMo hydrogen oxidation catalysts: high performance and durability in alkaline exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24433-24443.	5.2	161
5	Probing water distribution in compressed fuel-cell gas-diffusion layers using X-ray computed tomography. <i>Electrochemistry Communications</i> , 2015, 53, 24-28.	2.3	141
6	Understanding Impacts of Catalyst-Layer Thickness on Fuel-Cell Performance via Mathematical Modeling. <i>Journal of the Electrochemical Society</i> , 2016, 163, F691-F703.	1.3	127
7	Using operando techniques to understand and design high performance and stable alkaline membrane fuel cells. <i>Nature Communications</i> , 2020, 11, 3561.	5.8	113
8	Nickel-copper supported on a carbon black hydrogen oxidation catalyst integrated into an anion-exchange membrane fuel cell. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2268-2275.	2.5	102
9	Analysis of representative elementary volume and through-plane regional characteristics of carbon-fiber papers: diffusivity, permeability and electrical/thermal conductivity. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 687-703.	2.5	93
10	Investigating Evaporation in Gas Diffusion Layers for Fuel Cells with X-ray Computed Tomography. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28701-28711.	1.5	79
11	The Role of Compressive Stress on Gas Diffusion Media Morphology and Fuel Cell Performance. <i>ACS Applied Energy Materials</i> , 2018, 1, 191-201.	2.5	66
12	Nano-structured platinum group metal-free catalysts and their integration in fuel cell electrode architectures. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1139-1147.	10.8	61
13	Operando X-ray tomography and sub-second radiography for characterizing transport in polymer electrolyte membrane electrolyzer. <i>Electrochimica Acta</i> , 2018, 276, 424-433.	2.6	60
14	Highly Durable and Selective Fe- and Mo-Based Atomically Dispersed Electrocatalysts for Nitrate Reduction to Ammonia via Distinct and Synergized NO ₂ ⁻ Pathways. <i>ACS Catalysis</i> , 2022, 12, 6651-6662.	5.5	58
15	Micro-Scale Analysis of Liquid Water Breakthrough inside Gas Diffusion Layer for PEMFC Using X-ray Computed Tomography and Lattice Boltzmann Method. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3359-E3371.	1.3	55
16	Direct observations of liquid water formation at nano- and micro-scale in platinum group metal-free electrodes by operando X-ray computed tomography. <i>Materials Today Energy</i> , 2018, 9, 187-197.	2.5	55
17	Pathway to Complete Energy Sector Decarbonization with Available Iridium Resources using Ultralow Loaded Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52701-52712.	4.0	52
18	Investigating Phase-Change-Induced Flow in Gas Diffusion Layers in Fuel Cells with X-ray Computed Tomography. <i>Electrochimica Acta</i> , 2017, 256, 279-290.	2.6	51

#	ARTICLE	IF	CITATIONS
19	Coupling continuum and pore-network models for polymer-electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16831-16845.	3.8	50
20	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.	10.8	48
21	Anode-Design Strategies for Improved Performance of Polymer-Electrolyte Fuel Cells with Ultra-Thin Electrodes. <i>Joule</i> , 2018, 2, 1297-1312.	11.7	46
22	Continuum Modeling of Porous Electrodes for Electrochemical Synthesis. <i>Chemical Reviews</i> , 2022, 122, 11022-11084.	23.0	46
23	Implications of inherent inhomogeneities in thin carbon fiber-based gas diffusion layers: A comparative modeling study. <i>Electrochimica Acta</i> , 2019, 295, 861-874.	2.6	45
24	Understanding Water Transport in Polymer Electrolyte Fuel Cells Using Coupled Continuum and Pore- ϵ -Network Models. <i>Fuel Cells</i> , 2016, 16, 725-733.	1.5	44
25	Interfacial analysis of a PEM electrolyzer using X-ray computed tomography. <i>Sustainable Energy and Fuels</i> , 2020, 4, 921-931.	2.5	44
26	Enhanced Water Management of Polymer Electrolyte Fuel Cells with Additive-Containing Microporous Layers. <i>ACS Applied Energy Materials</i> , 2018, 1, 6006-6017.	2.5	41
27	Fundamental Understanding of Water Movement in Gas Diffusion Layer under Different Arrangements Using Combination of Direct Modeling and Experimental Visualization. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1115-F1126.	1.3	41
28	Designing the 3D Architecture of PGM-Free Cathodes for H ₂ /Air Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 7211-7222.	2.5	41
29	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.	5.6	41
30	Elucidating Performance Limitations in Alkaline-Exchange- Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3583-E3591.	1.3	40
31	Observation of Preferential Pathways for Oxygen Removal through Porous Transport Layers of Polymer Electrolyte Water Electrolyzers. <i>IScience</i> , 2020, 23, 101783.	1.9	39
32	Modeling ion conduction and electrochemical reactions in water films on thin-film metal electrodes with application to low temperature fuel cells. <i>Electrochimica Acta</i> , 2014, 146, 194-206.	2.6	37
33	Direct Simulations of Pore-Scale Water Transport through Diffusion Media. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3001-F3008.	1.3	37
34	Metal Oxide Clusters on Nitrogen-Doped Carbon are Highly Selective for CO ₂ Electroreduction to CO. <i>ACS Catalysis</i> , 2021, 11, 10028-10042.	5.5	37
35	X-ray computed tomography comparison of individual and parallel assembled commercial lithium iron phosphate batteries at end of life after high rate cycling. <i>Journal of Power Sources</i> , 2018, 381, 46-55.	4.0	36
36	Spatially Resolved Modeling of Electric Double Layers and Surface Chemistry for the Hydrogen Oxidation Reaction in Water-Filled Platinum- ϵ -Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9862-9875.	1.5	35

#	ARTICLE	IF	CITATIONS
37	Computational and Experimental Analysis of Water Transport at Component Interfaces in Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F3091-F3103.	1.3	34
38	Proton transport in ionomer-free regions of polymer electrolyte fuel cells and implications for oxygen reduction reaction. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 202-208.	2.5	31
39	Understanding the Role of Interfaces for Water Management in Platinum Group Metal-Free Electrodes in Polymer Electrolyte Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 3542-3553.	2.5	31
40	Catalysts by pyrolysis: Direct observation of chemical and morphological transformations leading to transition metal-nitrogen-carbon materials. <i>Materials Today</i> , 2021, 47, 53-68.	8.3	30
41	Thermal Conductivity and Compaction of GDL-MPL Interfacial Composite Material. <i>Journal of the Electrochemical Society</i> , 2018, 165, F514-F525.	1.3	25
42	Measurement of Contact Angles at Carbon Fiber/Water/Air Triple-Phase Boundaries Inside Gas Diffusion Layers Using X-ray Computed Tomography. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20002-20013.	4.0	25
43	Probing Heterogeneous Degradation of Catalyst in PEM Fuel Cells under Realistic Automotive Conditions with Multi-Modal Techniques. <i>Advanced Energy Materials</i> , 2021, 11, 2101794.	10.2	25
44	Impact of Corrosion Conditions on Carbon Paper Electrode Morphology and the Performance of a Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A353-A363.	1.3	24
45	Investigating Liquid Water Transport in Different Pore Structure of Gas Diffusion Layers for PEMFC Using Lattice Boltzmann Method. <i>Journal of the Electrochemical Society</i> , 2020, 167, 104516.	1.3	24
46	Mapping of Heterogeneous Catalyst Degradation in Polymer Electrolyte Fuel Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000623.	10.2	24
47	Investigation of cathode catalyst layer interfaces evolution during accelerated stress tests for polymer electrolyte fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120810.	10.8	24
48	Water Management in an Alkaline-Exchange-Membrane Fuel Cell. <i>ECS Transactions</i> , 2015, 69, 985-994.	0.3	23
49	Imaging ionomer in fuel cell catalyst layers with synchrotron nano transmission x-ray microscopy. <i>Solid State Ionics</i> , 2019, 335, 38-46.	1.3	23
50	Catalysts by pyrolysis: Direct observation of transformations during re-pyrolysis of transition metal-nitrogen-carbon materials leading to state-of-the-art platinum group metal-free electrocatalyst. <i>Materials Today</i> , 2022, 53, 58-70.	8.3	23
51	The Impact of Reaction on the Effective Properties of Multiscale Catalytic Porous Media: A Case of Polymer Electrolyte Fuel Cells. <i>Transport in Porous Media</i> , 2019, 128, 363-384.	1.2	22
52	Determining Proton Transport in Pseudo Catalyst Layers Using Hydrogen Pump DC and AC Techniques. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084521.	1.3	22
53	Bridging X-ray computed tomography and computational modeling for electrochemical energy-conversion and storage. <i>Current Opinion in Electrochemistry</i> , 2019, 13, 78-85.	2.5	20
54	Silk Fibroin/Carbon Nanotube Composite Electrodes for Flexible Biocatalytic Fuel Cells. <i>Advanced Electronic Materials</i> , 2016, 2, 1600190.	2.6	19

#	ARTICLE	IF	CITATIONS
55	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electro catalysts – Part I: High-loading Pt/C and Pt Extended Surface. <i>ChemPhysChem</i> , 2020, 21, 469-475.	1.0	19
56	Linking Perfluorosulfonic Acid Ionomer Chemistry and High-Current Density Performance in Fuel-Cell Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42579-42589.	4.0	19
57	Electrochemical top-down synthesis of C-supported Pt nano-particles with controllable shape and size: Mechanistic insights and application. <i>Nano Research</i> , 2021, 14, 2762-2769.	5.8	18
58	Experimental Study of Thermal Conductivity and Compression Measurements of the GDL-MPL Interfacial Composite Region. <i>ECS Transactions</i> , 2016, 75, 189-199.	0.3	17
59	On the Limitations of Volume-Averaged Descriptions of Gas Diffusion Layers in the Modeling of Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2017, 80, 133-143.	0.3	17
60	Numerical Study of Electrochemical Kinetics and Mass Transport inside Nano-Structural Catalyst Layer of PEMFC Using Lattice Boltzmann Agglomeration Method. <i>Journal of the Electrochemical Society</i> , 2020, 167, 013516.	1.3	17
61	Development of low temperature fuel cell holders for Operando x-ray micro and nano computed tomography to visualize water distribution. <i>JPhys Energy</i> , 2020, 2, 044005.	2.3	15
62	Understanding Liquid-Water Management in PEFCs Using X-Ray Computed Tomography and Modeling. <i>ECS Transactions</i> , 2015, 69, 1253-1265.	0.3	14
63	Electrokinetic Streaming-Current Methods to Probe the Electrode-Electrolyte Interface under Applied Potentials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19493-19505.	1.5	14
64	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 1911-1922.	2.5	14
65	Confinement effects for nano-electrocatalysts for oxygen reduction reaction; Current Opinion in Electrochemistry, 2021, 25, 100634.	2.5	14
66	The Impact of Micro Porous Layer on Liquid Water Evolution inside PEMFC using Lattice Boltzmann Method. <i>Journal of the Electrochemical Society</i> , 2021, 168, 074507.	1.3	14
67	Reactive impinging-flow technique for polymer-electrolyte-fuel-cell electrode-defect detection. <i>Journal of Power Sources</i> , 2016, 332, 372-382.	4.0	13
68	Unique selectivity trends of highly permeable PAP[5] water channel membranes. <i>Faraday Discussions</i> , 2018, 209, 193-204.	1.6	13
69	The development of a through-plane reactive excitation technique for detection of pinholes in membrane-containing MEA sub-assemblies; <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8533-8547.	3.8	13
70	A Numerical Study on the Impact of Cathode Catalyst Layer Loading on the Open Circuit Voltage in a Proton Exchange Membrane Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044519.	1.3	13
71	Numerical Predicting of Liquid Water Transport inside Gas Diffusion Layer for PEMFC Using Lattice Boltzmann Method. <i>ECS Transactions</i> , 2017, 80, 187-195.	0.3	12
72	Atomic Layer Deposition of Pt Nanoelectrode Array for Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3081-F3088.	1.3	12

#	ARTICLE	IF	CITATIONS
73	Interpreting Ionic Conductivity for Polymer Electrolyte Fuel Cell Catalyst Layers with Electrochemical Impedance Spectroscopy and Transmission Line Modeling. <i>Journal of the Electrochemical Society</i> , 2021, 168, 054502.	1.3	12
74	Combined Infrared Thermography, X-ray Radiography, and Computed Tomography for Ink Drying Studies. <i>ACS Applied Energy Materials</i> , 2018, 1, 6101-6114.	2.5	10
75	Water management strategies for PGM-free catalyst layers for polymer electrolyte fuel cells. <i>Current Opinion in Electrochemistry</i> , 2021, 25, 100622.	2.5	10
76	Hybrid Lattice Boltzmann Agglomeration Method for Modeling Transport Phenomena in Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044508.	1.3	10
77	Correlating the morphological changes to electrochemical performance during carbon corrosion in polymer electrolyte fuel cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12551-12562.	5.2	10
78	Bridging Scales to Model Reactive Diffusive Transport in Porous Media. <i>Journal of the Electrochemical Society</i> , 2020, 167, 013524.	1.3	9
79	Electrokinetic Streaming Current Method to Probe Polycrystalline Gold Electrode-Electrolyte Interface Under Applied Potentials. <i>Journal of the Electrochemical Society</i> , 2021, 168, 046511.	1.3	9
80	Spatially-Resolved Modeling of Electric Double Layers for the Oxygen Reduction Reaction in Water-Filled Platinum Electrodes. <i>ECS Transactions</i> , 2013, 58, 27-35.	0.3	7
81	Gas Diffusion Layers: Experimental and Modeling Approach for Morphological and Transport Properties. <i>Accounts of Materials Research</i> , 2022, 3, 416-425.	5.9	6
82	NGenE 2021: Electrochemistry Is Everywhere. <i>ACS Energy Letters</i> , 2022, 7, 368-374.	8.8	6
83	Electric Double Layer at the Polycrystalline Platinum-Electrolyte Interface Probed by the Electrokinetic Streaming Current Method. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19706-19715.	1.5	5
84	Understanding Platinum Ionomer Interface Properties of Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2022, 169, 064512.	1.3	5
85	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electrocatalysts – Part II: Effect of Platinum Dispersion. <i>ChemPhysChem</i> , 2020, 21, 1331-1339.	1.0	4
86	Modeling Gas Diffusion Layers in Polymer Electrolyte Fuel Cells Using a Continuum-Based Pore-Network Formulation. <i>ECS Transactions</i> , 2020, 97, 615-626.	0.3	4
87	Electrochemical Flow Reactor for Cement Clinker Production. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 840-840.	0.0	4
88	Numerical Study of Mass Transport and Electrochemical Kinetics inside Porous Structure Layers of PEMFC Using Direct Simulation Approach. <i>ECS Transactions</i> , 2019, 92, 39-46.	0.3	3
89	Modeling Ion Transport in Fuel Cell Electrodes including Water Electrolyte Interfaces and Electric Double Layers. <i>ECS Transactions</i> , 2011, 41, 179-188.	0.3	2
90	Coupling of Deterministic Contact Mechanics Model and Two-Phase Model to Study the Effect of Catalyst Layer-Microporous Layer Interface on Polymer Electrolyte Fuel Cell Performance. <i>ECS Transactions</i> , 2013, 58, 1125-1135.	0.3	2

#	ARTICLE	IF	CITATIONS
91	Electrochemical Characterization of Free-Standing Platinum Nanoelectrode Array Using Atomic Layer Deposition for Polymer Electrolyte Fuel Cells. ECS Transactions, 2016, 75, 747-755.	0.3	2
92	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electro catalysts – Part I: High-loading Pt/C and Pt Extended Surface. ChemPhysChem, 2020, 21, 468-468.	1.0	2
93	Pyrolysis of Metal Organic Frameworks (MOF): Transformations Leading to Formation of Transition Metal-Nitrogen-Carbon Catalysts. ECS Meeting Abstracts, 2021, MA2021-01, 476-476.	0.0	2
94	The bridge from bio-inspired molecular catalysts to fuel cell electrocatalysts. Chem Catalysis, 2021, 1, 12-13.	2.9	2
95	Ionic Liquid Modified Pt/C Electro catalysts for the Oxygen Reduction Reaction in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2155-2155.	0.0	2
96	Coupled continuum and network model framework to study catalyst layers of polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2022, 47, 17749-17761.	3.8	2
97	Measurement of Contact Angles at Carbon Fiber-Water-Air Triple Phase Boundaries inside Gas Diffusion Media of Polymer Electrolyte Membrane Fuel Cells from Xray Computed Tomography. ECS Meeting Abstracts, 2021, MA2021-01, 968-968.	0.0	1
98	Understanding Pyrolysis: Operando and in Situ characterization of Morphology and Composition Changes during Synthesis of M-N-C Electro catalysts. ECS Meeting Abstracts, 2020, MA2020-02, 2156-2156.	0.0	1
99	Segmenting Water Observed with X-Ray Computed Tomography in Gas Diffusion Layers of Polymer Electrolyte Fuel Cells Using Convolutional Neural Networks. ECS Meeting Abstracts, 2020, MA2020-01, 1612-1612.	0.0	1
100	(Invited) High Efficiency PEM Water Electrolysis Enabled By Advanced Catalysts, Membranes and Processes. ECS Meeting Abstracts, 2020, MA2020-02, 2447-2447.	0.0	1
101	Applying the Lattice Boltzmann Method to Simulate Bubble Growth in Porous Media for PEM Water Electrolysis. ECS Meeting Abstracts, 2020, MA2020-02, 2472-2472.	0.0	1
102	Hydrogen's Big Shot. Electrochemical Society Interface, 2021, 30, 40-41.	0.3	1
103	The Influence of Gas Diffusion Media Morphology on Hydrogen Fuel Cell Performance. Materials Science Forum, 2018, 941, 2226-2231.	0.3	0
104	Correlating Effects of Catalyst Loading and Porous Transport Layer Morphologies on Operation of Polymer Electrolyte Water Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-01, 1182-1182.	0.0	0
105	(Invited) Investigating Preferential Pathways for Oxygen Removal through Porous Transport Layers of Polymer Electrolyte Water Electrolyzer Using Operando X-Ray CT. ECS Meeting Abstracts, 2021, MA2021-01, 1186-1186.	0.0	0
106	(Energy Technology Division Supramaniam Srinivasan Young Investigator Award) Rethinking Catalyst Layer Design: Interplay between Activity and Durability for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-01, 1195-1195.	0.0	0
107	Modeling Gas Diffusion Layers in Polymer Electrolyte Fuel Cells Using a Continuum-based Pore-network Formulation. ECS Meeting Abstracts, 2020, MA2020-01, 1606-1606.	0.0	0
108	A Numerical Study on the Impact of Cathode Catalyst Layer Loading on the Open Circuit Voltage. ECS Meeting Abstracts, 2020, MA2020-01, 1677-1677.	0.0	0

#	ARTICLE	IF	CITATIONS
109	(Invited) In Situ Pyrolysis: Direct Observations of Transformations during Synthesis of M-N-C Electro-catalysts. ECS Meeting Abstracts, 2021, MA2021-02, 1137-1137.	0.0	0
110	Advanced Rechargeable Zinc-Air Batteries with Precious Metal Free Catalysts. ECS Meeting Abstracts, 2021, MA2021-02, 20-20.	0.0	0
111	Microscopy Studies of the Novel Fluorinated Ionomers for Proton Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1037-1037.	0.0	0
112	Effect of Commercial Gas Diffusion Layers on Catalyst Durability of Polymer Electrolyte Fuel Cells in Varied Cathode Gas Environment. ECS Meeting Abstracts, 2021, MA2021-02, 1193-1193.	0.0	0
113	Coupling Lattice-Boltzmann and Finite Volume CFD Methods for Efficient Co-Simulation of Two-Phase Flow in the Porous Transport Layers of PEM Water Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-02, 1228-1228.	0.0	0
114	Use of Pulsed RF Glow Discharge Optical Emission Spectroscopy for the Study of Elemental Distribution of Li-NMC Cathode at Various State of Charge in Li-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 300-300.	0.0	0
115	Measurement and Dynamic Modeling of Hydrogen Separation from Hydrogen Enriched Natural Gas Using Phosphoric Acid Doped Polybenzimidazole Hydrogen Pump. ECS Meeting Abstracts, 2021, MA2021-02, 755-755.	0.0	0
116	Hybrid Lattice Boltzmann Agglomeration Method for Modeling Transport Phenomena in Catalyst Layer of Polymer Electrolyte Membrane Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2100-2100.	0.0	0
117	Combined Electrokinetic-Electrochemical Probe to Understand Electric Double Layer at Metal-Electrolyte Interface: Application to Polycrystalline Gold and Platinum. ECS Meeting Abstracts, 2020, MA2020-02, 2857-2857.	0.0	0
118	Interpreting Ionic Conductivity for Polymer Electrolyte Fuel Cell Catalyst Layers with Electrochemical Impedance Spectroscopy and Transmission Line Modeling. ECS Meeting Abstracts, 2020, MA2020-02, 3743-3743.	0.0	0
119	Investigating Liquid Water Transport in Different Pore Structure of Gas Diffusion Layers for PEMFC Using Lattice Boltzmann Method. ECS Meeting Abstracts, 2020, MA2020-02, 2105-2105.	0.0	0
120	Investigation of Liquid Water Formation in PEMFC By Direct Simulation and Operando X-Ray Computed Tomography. ECS Meeting Abstracts, 2020, MA2020-02, 2123-2123.	0.0	0
121	High O_2 Permeability Ionomers for Improved Fuel Cell Performance. ECS Meeting Abstracts, 2020, MA2020-02, 2219-2219.	0.0	0
122	(Invited) Kinetic Isotope Effect As a Tool to Investigate the Oxygen Reduction Reaction on Pt-Based Electro-catalysts. ECS Meeting Abstracts, 2020, MA2020-02, 884-884.	0.0	0
123	Modeling Single and Two-Phase Transport in Thin Porous Layers Using a Composite Continuum-Pore Network Formulation. ECS Meeting Abstracts, 2020, MA2020-02, 3843-3843.	0.0	0
124	Mapping of Heterogeneous Catalyst Degradation in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2163-2163.	0.0	0
125	Catalyst Degradation in Polymer Electrolyte Fuel Cells with Multi-Modal Techniques: Understanding Phenomena Under Varied Gas and Relative Humidity. ECS Meeting Abstracts, 2020, MA2020-02, 2325-2325.	0.0	0
126	High O_2 Permeability Ionomers for Improved Fuel Cell Performance. ECS Meeting Abstracts, 2021, MA2021-02, 1187-1187.	0.0	0

#	ARTICLE	IF	CITATIONS
127	High Surface Area Pt/C Electrocatalyst Modification with Ionic Liquids for Improved Ionic Conductivity in Polymer Electrolyte Fuel Cell Catalyst Layer. ECS Meeting Abstracts, 2021, MA2021-02, 1019-1019.	0.0	0
128	Carbon Corrosion in Polymer Electrolyte Fuel Cells: A Complex Interplay between Morphological Changes and Electrochemical Performance. ECS Meeting Abstracts, 2021, MA2021-02, 1957-1957.	0.0	0
129	Evolution of Ionomer Coverage during Accelerated Stress Tests in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2162-2162.	0.0	0
130	(Invited) Impact of Pore Morphology and Surface Hydrophobicity of the Carbon Matrix on the Macrokinetics of the Oxygen Reduction Reaction Performance for Atomically Dispersed Fe-N-C Catalysts. ECS Meeting Abstracts, 2022, MA2022-01, 633-633.	0.0	0
131	Electrochemical Trends of Atomically Dispersed Metal-Nitrogen-Carbon Materials As Oxygen Reduction Reaction Catalysts and Active Supports. ECS Meeting Abstracts, 2022, MA2022-01, 1472-1472.	0.0	0
132	(Invited) Understanding Oxygen Distribution in the Porous Transport Layer of Proton Exchange Membrane Water Electrolyzer (PEMWE) Using x-Ray Computed Tomography. ECS Meeting Abstracts, 2022, MA2022-01, 1758-1758.	0.0	0
133	The Role of Atomically Dispersed Transition Metal Centers for the Electrochemical Nitrate Reduction Reaction Towards Ammonia Synthesis. ECS Meeting Abstracts, 2022, MA2022-01, 1806-1806.	0.0	0