Makoto Uchida

List of Publications by Year
in descending order

127 papers	5,265 citations	109321 35 h-index	88630 70 g-index
127 all docs	127 docs citations	127 times ranked	3650 citing authors

#	Article	IF	Citations
1	Preparation of highly dispersed Pt + Ru alloy clusters and the activity for the electrooxidation of methanol. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 229, 395-406.	0.1	562
2	Investigation of the Microstructure in the Catalyst Layer and Effects of Both Perfluorosulfonate Ionomer and PTFEâ€Loaded Carbon on the Catalyst Layer of Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 1995, 142, 4143-4149.	2.9	380
3	Effects of Microstructure of Carbon Support in the Catalyst Layer on the Performance of Polymerâ€Electrolyte Fuel Cells. Journal of the Electrochemical Society, 1996, 143, 2245-2252.	2.9	300
4	Effects of carbon supports on Pt distribution, ionomer coverage and cathode performance for polymer electrolyte fuel cells. Journal of Power Sources, 2016, 315, 179-191.	7.8	264
5	New Preparation Method for Polymerâ€Electrolyte Fuel Cells. Journal of the Electrochemical Society, 1995, 142, 463-468.	2.9	248
6	Improved Preparation Process of Veryâ€Lowâ€Platinumâ€Loading Electrodes for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 1998, 145, 3708-3713.	2.9	188
7	Design of flexible polyphenylene proton-conducting membrane for next-generation fuel cells. Science Advances, 2017, 3, eaao0476.	10.3	175
8	Influences of Both Carbon Supports and Heatâ€Treatment of Supported Catalyst on Electrochemical Oxidation of Methanol. Journal of the Electrochemical Society, 1995, 142, 2572-2576.	2.9	160
9	New evaluation method for the effectiveness of platinum/carbon electrocatalysts under operating conditions. Electrochimica Acta, 2010, 55, 8504-8512.	5.2	117
10	Electrochemical and Raman spectroscopic evaluation of Pt/graphitized carbon black catalyst durability for the start/stop operating condition of polymer electrolyte fuel cells. Electrochimica Acta, 2012, 70, 171-181.	5.2	107
11	Investigation of the corrosion of carbon supports in polymer electrolyte fuel cells using simulated start-up/shutdown cycling. Electrochimica Acta, 2013, 91, 195-207.	5.2	105
12	Effect of the state of distribution of supported Pt nanoparticles on effective Pt utilization in polymer electrolyte fuel cells. Physical Chemistry Chemical Physics, 2013, 15, 11236.	2.8	99
13	Corrosion of carbon supports at cathode during hydrogen/air replacement at anode studied by visualization of oxygen partial pressures in a PEFCâ€"Start-up/shut-down simulation. Journal of Power Sources, 2011, 196, 3003-3008.	7.8	98
14	Oxygen Evolution Reaction on Perovskites: A Multieffect Descriptor Study Combining Experimental and Theoretical Methods. ACS Catalysis, 2018, 8, 9567-9578.	11.2	98
15	Characterization of Pt catalysts on Nb-doped and Sb-doped SnO2â€" support materials with aggregated structure by rotating disk electrode and fuel cell measurements. Electrochimica Acta, 2013, 110, 316-324.	5.2	88
16	Effects of short-side-chain perfluorosulfonic acid ionomers as binders on the performance of low Pt loading fuel cell cathodes. Journal of Power Sources, 2015, 275, 384-391.	7.8	84
17	Synthesis and electrochemical characterization of Pt catalyst supported on Sn0.96Sb0.04O2â^'Î´ with a network structure. Electrochimica Acta, 2011, 56, 2881-2887.	5.2	82
18	Load cycle durability of a graphitized carbon black-supported platinum catalyst in polymer electrolyte fuel cell cathodes. Journal of Power Sources, 2016, 324, 729-737.	7.8	77

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19	Deleterious effects of interim cyclic voltammetry on Pt/carbon black catalyst degradation during start-up/shutdown cycling evaluation. Electrochimica Acta, 2014, 123, 84-92.	5.2	76
20	Anion exchange membranes composed of perfluoroalkylene chains and ammonium-functionalized oligophenylenes. Journal of Materials Chemistry A, 2015, 3, 21779-21788.	10.3	67
21	Investigation of the effect of pore diameter of gas diffusion layers on cold start behavior and cell performance of polymer electrolyte membrane fuel cells. Electrochimica Acta, 2013, 108, 304-312.	5.2	63
22	Applications of the gas diffusion electrode to a backward feed and exhaust (BFE) type methanol anode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 199, 311-322.	0.1	58
23	Improvements in electrical and electrochemical properties of Nb-doped SnO_{2â^'Î´} supports for fuel cell cathodes due to aggregation and Pt loading. RSC Advances, 2014, 4, 32180-32188.	3.6	56
24	Sulfonated Poly(arylene ether sulfone ketone) Multiblock Copolymers with Highly Sulfonated Blocks. Long-Term Fuel Cell Operation and Post-Test Analyses. ACS Applied Materials & Interfaces, 2011, 3, 2786-2793.	8.0	55
25	Sulfonated Poly(arylene ether sulfone ketone) Multiblock Copolymers with Highly Sulfonated Block. Fuel Cell Performance. Journal of Physical Chemistry B, 2010, 114, 10481-10487.	2.6	52
26	Investigation of the effect of a hydrophilic layer in the gas diffusion layer of a polymer electrolyte membrane fuel cell on the cell performance and cold start behaviour. Electrochimica Acta, 2014, 120, 240-247.	5.2	52
27	Cathodic performance and high potential durability of Ta-SnO2â^'Î´-supported Pt catalysts for PEFC cathodes. Electrochemistry Communications, 2015, 51, 37-40.	4.7	52
28	Effects of Both Oxygen Permeability and Ion Exchange Capacity for Cathode Ionomers on the Performance and Durability of Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F3063-F3071.	2.9	51
29	Temperatureâ€•and Humidityâ€Controlled SAXS Analysis of Protonâ€Conductive Ionomer Membranes for Fuel Cells. ChemSusChem, 2014, 7, 729-733.	6.8	49
30	The effectiveness of platinum/carbon electrocatalysts: Dependence on catalyst layer thickness and Pt alloy catalytic effects. Electrochimica Acta, 2011, 56, 4783-4790.	5.2	48
31	Preparation of titanium nitride-supported platinum catalysts with well controlled morphology and their properties relevant to polymer electrolyte fuel cells. Electrochimica Acta, 2012, 77, 279-284.	5.2	46
32	Oxygen Reduction Reaction Activity and Durability of Pt Catalysts Supported on Titanium Carbide. Catalysts, 2015, 5, 966-980.	3.5	46
33	Effect of Pt and Ionomer Distribution on Polymer Electrolyte Fuel Cell Performance and Durability. ACS Applied Energy Materials, 2021, 4, 2307-2317.	5.1	45
34	Effect of Electronic Conductivities of Iridium Oxide/Doped SnO2 Oxygen-Evolving Catalysts on the Polarization Properties in Proton Exchange Membrane Water Electrolysis. Catalysts, 2019, 9, 74.	3.5	41
35	Gas diffusion electrodes containing sulfonated poly (arylene ether) ionomer for PEFCs. Electrochimica Acta, 2009, 54, 4328-4333.	5.2	40
36	Preparation and Fuel Cell Performance of Catalyst Layers Using Sulfonated Polyimide Ionomers. ACS Applied Materials & Interfaces, 2012, 4, 730-737.	8.0	36

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37	PEFC catalyst layers: Effect of support microstructure on both distributions of Pt and ionomer and cell performance and durability. Current Opinion in Electrochemistry, 2020, 21, 209-218.	4.8	33
38	Micro-Raman study on water distribution inside a Nafion membrane during operation of polymer electrolyte fuel cell. Electrochimica Acta, 2012, 82, 277-283.	5.2	32
39	Simple, Effective Molecular Strategy for the Design of Fuel Cell Membranes: Combination of Perfluoroalkyl and Sulfonated Phenylene Groups. ACS Energy Letters, 2016, 1, 348-352.	17.4	32
40	Electronic States and Transport Phenomena of Pt Nanoparticle Catalysts Supported on Nb-Doped SnO₂ for Polymer Electrolyte Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 34957-34963.	8.0	32
41	Electrochemical Activity and Durability of Platinum Catalysts Supported on Nanometer-Size Titanium Nitride Particles for Polymer Electrolyte Fuel Cells. Electrochemistry, 2011, 79, 399-403.	1.4	30
42	Effect of Added Graphitized CB on Both Performance and Durability of Pt/Nb-SnO₂Cathodes for PEFCs. Journal of the Electrochemical Society, 2015, 162, F736-F743.	2.9	29
43	Degradation Mechanisms of Carbon Supports under Hydrogen Passivation Startup and Shutdown Process for PEFCs. Journal of the Electrochemical Society, 2017, 164, F181-F187.	2.9	29
44	Reinforced Polyphenylene Ionomer Membranes Exhibiting High Fuel Cell Performance and Mechanical Durability. ACS Materials Au, 2021, 1, 81-88.	6.0	29
45	Novel strategy to mitigate cathode catalyst degradation during air/air startup cycling via the atmospheric resistive switching mechanism ofÃa hydrogen anode with a platinum catalyst supported on tantalum-doped titanium dioxide. Journal of Power Sources, 2015, 294, 292-298.	7.8	28
46	Durability of Pt Catalysts Supported on Graphitized Carbon-Black during Gas-Exchange Start-Up Operation Similar to That Used for Fuel Cell Vehicles. Journal of the Electrochemical Society, 2016, 163, F644-F650.	2.9	28
47	Remarkable Mass Activities for the Oxygen Evolution Reaction at Iridium Oxide Nanocatalysts Dispersed on Tin Oxides for Polymer Electrolyte Membrane Water Electrolysis. Journal of the Electrochemical Society, 2017, 164, F944-F947.	2.9	28
48	Temperature Dependence of Oxygen Reduction Activity at Pt/Nb-Doped SnO₂ Catalysts with Varied Pt Loading. ACS Catalysis, 2021, 11, 5222-5230.	11.2	28
49	SiO2-containing catalyst layers for PEFCs operating under low humidity. Electrochemistry Communications, 2012, 16, 100-102.	4.7	27
50	Use of a sub-gasket and soft gas diffusion layer to mitigate mechanical degradation of a hydrocarbon membrane for polymer electrolyte fuel cells in wet-dry cycling. Journal of Power Sources, 2016, 325, 35-41.	7.8	27
51	Effects of Incorporation of SiO2 Nanoparticles into Sulfonated Polyimide Electrolyte Membranes on Fuel Cell Performance under Low Humidity Conditions. Electrochimica Acta, 2014, 137, 213-218.	5.2	25
52	Improvement of Cell Performance in Low-Pt-Loading PEFC Cathode Catalyst Layers Prepared by the Electrospray Method. Journal of the Electrochemical Society, 2016, 163, F1182-F1188.	2.9	25
53	Durability and degradation analysis of hydrocarbon ionomer membranes in polymer electrolyte fuel cells accelerated stress evaluation. Journal of Power Sources, 2017, 367, 63-71.	7.8	24
54	Anion conductive aromatic polymers containing fluorenyl groups: Effect of the position and number of ammonium groups. Journal of Polymer Science Part A, 2016, 54, 935-944.	2.3	23

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55	Improvement of Cell Performance in Low-Pt-Loading PEFC Cathode Catalyst Layers with Pt/Ta-SnO₂Prepared by the Electrospray Method. Journal of the Electrochemical Society, 2017, 164, F235-F242.	2.9	22
56	Gas diffusion electrodes containing sulfonated poly (arylene ether) ionomer for polymer electrolyte fuel cells. Electrochimica Acta, 2010, 55, 3464-3470.	5.2	21
57	Durability of Pt/Graphitized Carbon Catalyst Prepared by the Nanocapsule Method for the Start/Stop Operating Condition of Polymer Electrolyte Fuel Cells. Electrochemistry, 2011, 79, 381-387.	1.4	21
58	Oxygen partial pressures on gas-diffusion layer surface and gas-flow channel wall in polymer electrolyte fuel cell during power generation studied by visualization technique combined with numerical simulation. Journal of Power Sources, 2014, 269, 556-564.	7.8	21
59	Simultaneous visualization of oxygen partial pressure, current density, and water droplets in serpentine fuel cell during power generation for understanding reaction distributions. Journal of Power Sources, 2017, 343, 135-141.	7.8	21
60	Imaging of Water Droplets Formed during PEFC Operation on GDLs With Different Pore Sizes. Electrochemistry, 2011, 79, 388-391.	1.4	20
61	Double-Layer Ionomer Membrane for Improving Fuel Cell Performance. ACS Applied Materials & Interfaces, 2014, 6, 13894-13899.	8.0	19
62	Performance of practical-sized membrane-electrode assemblies using titanium nitride-supported platinum catalysts mixed with acetylene black as the cathode catalyst layer. Journal of Power Sources, 2015, 280, 593-599.	7.8	19
63	Boosting Pt oxygen reduction reaction activity by tuning the tin oxide support. Electrochemistry Communications, 2017, 83, 90-95.	4.7	19
64	Unsupported Pt₃Ni Aerogels as Corrosion Resistant PEFC Anode Catalysts under Gross Fuel Starvation Conditions. Journal of the Electrochemical Society, 2018, 165, F3001-F3006.	2.9	19
65	Unparalleled mitigation of membrane degradation in fuel cells via a counter-intuitive approach: suppression of H₂O₂ production at the hydrogen anode using a Pt_{skin}â€“PtCo catalyst. Journal of Materials Chemistry A, 2020, 8, 1091-1094.	10.3	19
66	Influence of Ionomer Content on Both Cell Performance and Load Cycle Durability for Polymer Electrolyte Fuel Cells Using Pt/Nb-SnO₂ Cathode Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, J3083-J3089.	2.9	18
67	Influence of Pt Loading and Cell Potential on the HF Ohmic Resistance of an Nb-Doped SnO₂-Supported Pt Cathode for PEFCs. Journal of the Electrochemical Society, 2016, 163, F97-F105.	2.9	17
68	Pt nanorods oriented on Gd-doped ceria polyhedra enable superior oxygen reduction catalysis for fuel cells. Journal of Catalysis, 2022, 407, 300-311.	6.2	17
69	Structurally Well-Defined Anion-Exchange Membranes Containing Perfluoroalkyl and Ammonium-Functionalized Fluorenyl Groups. ACS Omega, 2018, 3, 16143-16149.	3.5	16
70	Effect of PEFC operating conditions on the durability of sulfonated poly(arylene ether sulfone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	5.2	15
71	Effect of Surface Ion Conductivity of Anion Exchange Membranes on Fuel Cell Performance. Langmuir, 2016, 32, 9557-9565.	3.5	15
72	Tomographic Analysis and Modeling of Polymer Electrolyte Fuel Cell Unsupported Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, F7-F16.	2.9	15

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73	Enhancement of the Catalytic Activity and Load Cycle Durability of a PtCo Alloy Cathode Catalyst Supported on Ta-Doped SnO₂ with a Unique Fused Aggregated Network Microstructure for Polymer Electrolyte Fuel Cells. ACS Applied Energy Materials, 2020, 3, 6922-6928.	5.1	15
74	Effect of Pt Loading Percentage on Carbon Blacks with Large Interior Nanopore Volume on the Performance and Durability of Polymer Electrolyte Fuel Cells. ACS Applied Energy Materials, 2022, 5, 316-329.	5.1	14
75	Real-Time Visualization of CO2 Generated by Corrosion of the Carbon Support in a PEFC Cathode. Electrochemical and Solid-State Letters, 2012, 15, B51.	2.2	13
76	Visualization of Oxygen Partial Pressure and Numerical Simulation of a Running Polymer Electrolyte Fuel Cell with Straight Flow Channels to Elucidate Reaction Distributions. ChemElectroChem, 2015, 2, 1495-1501.	3.4	13
77	Performance hysteresis phenomena of anion exchange membrane fuel cells using an Feâ€"Nâ€"C cathode catalyst and an in-house-developed polymer electrolyte. Journal of Power Sources, 2021, 487, 229407.	7.8	13
78	Effect of water management in membrane and cathode catalyst layers on suppressing the performance hysteresis phenomenon in anion-exchange membrane fuel cells. Journal of Power Sources, 2022, 522, 230997.	7.8	13
79	Real-time visualization of oxygen partial pressures in straight channels of running polymer electrolyte fuel cell with water plugging. Journal of Power Sources, 2015, 273, 873-877.	7.8	12
80	Durability of Sulfonated Phenylene Poly(Arylene Ether Ketone) Semiblock Copolymer Membrane in Wet-Dry Cycling for PEFCs. Journal of the Electrochemical Society, 2017, 164, F1204-F1210.	2.9	12
81	Durability of Newly Developed Polyphenylene-Based Ionomer Membranes in Polymer Electrolyte Fuel Cells: Accelerated Stress Evaluation. Journal of the Electrochemical Society, 2019, 166, F3105-F3110.	2.9	12
82	Durability of an aromatic block copolymer membrane in practical PEFC operation. Electrochemistry Communications, 2012, 24, 47-49.	4.7	11
83	Experimental analyses of low humidity operation properties of SiO2-containing catalyst layers for polymer electrolyte fuel cells. Electrochimica Acta, 2013, 88, 807-813.	5.2	11
84	Electrochemical Oxidation of Hydrolyzed Poly Oxymethylene-dimethyl Ether by PtRu Catalysts on Nb-Doped SnO_{2â^'Î´} Supports for Direct Oxidation Fuel Cells. ACS Applied Materials & Interfaces, 2014, 6, 22138-22145.	8.0	11
85	Effect of an Electrospray-Generated Ionomer Morphology on Polymer Electrolyte Fuel Cell Performance. Energy & Fuels, 2020, 34, 14853-14863.	5.1	11
86	Effect of platinum loading on fuel cell cathode performance using hydrocarbon ionomers as binders. Physical Chemistry Chemical Physics, 2012, 14, 16713.	2.8	10
87	Platinum Anti-Dissolution Mechanism of Pt/Nb-SnO₂ Cathode Catalyst Layer during Load Cycling in the Presence of Oxygen for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F1300-F1311.	2.9	9
88	The Possibility of Intermediateâ€"Temperature (120 Â°C)â€"Operated Polymer Electrolyte Fuel Cells using Perfluorosulfonic Acid Polymer Membranes. Journal of the Electrochemical Society, 2022, 169, 044522.	2.9	9
89	Visualization of the oxygen partial pressure in a proton exchange membrane fuel cell during cell operation with low oxygen concentrations. Journal of Power Sources, 2021, 483, 229193.	7.8	8
90	Enhanced oxygen reduction electrocatalysis on PtCoSn alloy nanocatalyst mediated by Ta-doped SnO2 support for polymer electrolyte fuel cells. Electrochimica Acta, 2021, 390, 138894.	5.2	8

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91	Application of a backward feed and exhaust (BFE) type methanol anode to zinc electrowinning. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 205, 125-133.	0.1	7
92	Evaluation of Ionomer Distribution on Electrocatalysts for Polymer Electrolyte Fuel Cells by Use of a Low Acceleration Voltage Scanning Electron Microscope. Journal of the Electrochemical Society, 2021, 168, 054510.	2.9	7
93	Effect of PEFC operating conditions on the durability of sulfonated polyimide membranes. Electrochimica Acta, 2011, 58, 589-598.	5.2	6
94	Effects of SiO₂ Nanoparticles Incorporated into Poly(Arylene Ether Sulfone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Electrochemistry, 2015, 83, 150-154.	1.4	6
95	Oscillation mechanism in polymer electrolyte membrane fuel cell studied by <i>operando</i> monitoring of oxygen partial pressure using optical probes. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 230-237.	0.2	6
96	Electrochemical Oxidation of Hydrolyzed Poly-Oxymethylene-Dimethylether by Pt and PtRu Catalysts on Ta-Doped SnO₂Supports for Direct Oxidation Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F1226-F1233.	2.9	5
97	Wet/dry cycle durability of polyphenylene ionomer membranes in PEFC. Journal of Power Sources Advances, 2021, 10, 100063.	5.1	5
98	Tafel Slope Component Analysis of Polymer Electrolyte Fuel Cell Cathode Current-Potential Behavior. ECS Transactions, 2011, 35, 13-23.	0.5	3
99	Visualization of the Oxygen Partial Pressure on the Gas-Diffusion-Layer Surface under the Single-Serpentine Flow Channel and the Ribs in a Polymer Electrolyte Membrane Fuel Cell during the Power Generation. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 338-343.	0.2	2
100	An aromatic ionomer in the anode catalyst layer improves the start-up durability of polymer electrolyte fuel cells. Energy Advances, 2022, 1, 38-44.	3.3	2
101	Evaluation of Cell Performance and Durability for Cathode Catalysts (Platinum Supported on Carbon) Tj ETQq1 1 0.784314 rgBT /Overlo Start-Up/Shutdown Cycles and Load Cycles. , 2018, , 53-113.		1
102	PEFCç”¨ã,¬ã,¹æ‹¡æ•£é›»æ¥µã®è¦ç´ æŠ€è¡“ã•ãã®è¨ˆæŒ‡é‡. Electrochemistry, 2002, 70, 639-644.	1.4	1
103	Effect of Pt and Ionomer Distribution on Cell Performance and Durability. ECS Meeting Abstracts, 2021, MA2021-02, 1177-1177.	0.0	1
104	Effects of microstructure in catalyst layer on the performance of PEFC. Studies in Surface Science and Catalysis, 2001, , 959-962.	1.5	0
105	Soft X-Ray Imaging of Polymer Electrolyte Fuel Cells Using Different Support Materials for Catalyst Layers. ECS Transactions, 2021, 104, 185-190.	0.5	0
106	Polymer Electrolyte Fuel Cells, Membrane-Electrode Assemblies. , 2014, , 1669-1675.		0
107	(Invited) Effects of Ionomers and Fabrication Methods on Both Performance and Durability of Low-Pt-Loading PEFC Cathode Catalyst Layer with Carbon or Conductive Ceramic Supported Pt Catalyst. ECS Meeting Abstracts, 2018, , .	0.0	0
108	Effects of Ionomer Content on Both Performance and Load Cycle Durability for PEFCs Using Pt/Nb-SnO2 Cathode Catalyst Layers. ECS Meeting Abstracts, 2018, , .	0.0	0

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109	(Invited) Pt-Based Aerogels As Enhanced-Durability Electrocatalysts for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
110	Unsupported Pt3ni Aerogels As High Stability Catalysts for PEFC Anodes Under Fuel Starvation Conditions. ECS Meeting Abstracts, 2018, , .	0.0	0
111	Modeling and Experimental Studies of Mesoscopic Morphologies and Proton Conductivities of Cathode Catalyst Layers with Different Carbon Supports. ECS Meeting Abstracts, 2018, , .	0.0	0
112	Transmission Electron Microscopic Observation of Both Ionomer and Pt Distribution and Their Effects on Cathode Performance for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
113	Load Cycle Durability of Pt/Nb-SnO2 in Polymer Electrolyte Fuel Cells Under Potentiostatic/Galvanostatic Operation. ECS Meeting Abstracts, 2018, , .	0.0	0
114	Effects of Various Operating Conditions on Load Cycle Durability of Pt/Nb-SnO2 Cathode Catalyst Layers. ECS Meeting Abstracts, 2019, , .	0.0	0
115	Durability of Newly Developed Polyphenylene-Based Ionomer Membranes in Polymer Electrolyte Fuel Cells: Accelerated Stress Evaluation. ECS Meeting Abstracts, 2019, , .	0.0	0
116	A Study on the Influence of Ionization Method on Single Cell Initial Performance: Electrospray Method. ECS Meeting Abstracts, 2019, , .	0.0	0
117	Improvement of the Performance of Pt Catalysts Supported on Nb-Doped SnO2 Via Well-Controlled Interfaces. ECS Meeting Abstracts, 2019, , .	0.0	0
118	Effect of Water Management for Membranes and Catalyst Layers Using an In-House Developed Polymer Electrolyte on Cell Performance Hysteresis in Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1206-1206.	0.0	0
119	Fabrication of Cathode Catalyst Layer By Use of Multi-Nozzle Electrospray Method on Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1087-1087.	0.0	0
120	Highly Durable and Active Pt Nanorod Electrocatalysts Using SnO2 Supports for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1181-1181.	0.0	0
121	(Invited) Highly Durable and Active Electrocatalysts Using SnO2 Supports for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2331-2331.	0.0	0
122	(Invited) Partially Fluorinated Anion Exchange Membranes for Electrochemical Applications. ECS Meeting Abstracts, 2020, MA2020-02, 2364-2364.	0.0	0
123	Effect of Electrospray-Generated Ionomer Morphology on Polymer Electrolyte Fuel Cell Performance. ECS Meeting Abstracts, 2020, MA2020-02, 2117-2117.	0.0	0
124	A Simple Analytical Approach for Fitting Steady-State Polarization Behavior of Polymer Electrolyte Fuel Cells Using Tafel Slope Component Analysis (TSCA). ECS Meeting Abstracts, 2020, MA2020-02, 2177-2177.	0.0	0
125	Study of Cathode Catalyst Layers for Anion Exchange Membrane Fuel Cells Using Fe-N-C Catalyst and a Novel Polymer Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 2349-2349.	0.0	0
126	(Invited) Effect of Water Management for Cathode Catalyst Layers Using a Non-Noble Metal Catalyst and a Novel Polymer Electrolyte on Cell Performance Hysteresis in Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2371-2371.	0.0	0

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127	Soft X-Ray Imaging of Polymer Electrolyte Fuel Cells Using Different Support Materials for Catalyst Layers. ECS Meeting Abstracts, 2021, MA2021-02, 1059-1059.	0.0	0