

Yunfeng Zhai

List of Publications by Year in descending order

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41
papers

1,698
citations

394421

19
h-index

276875

41
g-index

42
all docs

42
docs citations

42
times ranked

1510
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of Nafion membrane using interfacial polymerization for vanadium redox flow battery applications. <i>Journal of Membrane Science</i> , 2008, 311, 98-103.	8.2	238
2	Preparation and characterization of sulfated zirconia (SO ₄ ²⁻ /ZrO ₂)/Nafion composite membranes for PEMFC operation at high temperature/low humidity. <i>Journal of Membrane Science</i> , 2006, 280, 148-155.	8.2	151
3	The stability of Pt/C catalyst in H ₃ PO ₄ /PBI PEMFC during high temperature life test. <i>Journal of Power Sources</i> , 2007, 164, 126-133.	7.8	147
4	Studies of performance degradation of a high temperature PEMFC based on H ₃ PO ₄ -doped PBI. <i>Journal of Power Sources</i> , 2006, 162, 547-552.	7.8	141
5	A novel H ₃ PO ₄ /Nafion/PBI composite membrane for enhanced durability of high temperature PEM fuel cells. <i>Journal of Power Sources</i> , 2007, 169, 259-264.	7.8	119
6	Degradation Study on MEA in H ₃ PO ₄ /PBI High-Temperature PEMFC Life Test. <i>Journal of the Electrochemical Society</i> , 2007, 154, B72.	2.9	100
7	500h Continuous aging life test on PBI/H ₃ PO ₄ high-temperature PEMFC. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1855-1862.	7.1	95
8	Pt/SiO ₂ catalyst as an addition to Nafion/PTFE self-humidifying composite membrane. <i>Journal of Power Sources</i> , 2006, 161, 61-67.	7.8	71
9	Performance degradation studies on PBI/H ₃ PO ₄ high temperature PEMFC and one-dimensional numerical analysis. <i>Electrochimica Acta</i> , 2006, 52, 394-401.	5.2	64
10	Pt ₄ ZrO ₂ /C cathode catalyst for improved durability in high temperature PEMFC based on H ₃ PO ₄ doped PBI. <i>Electrochemistry Communications</i> , 2007, 9, 135-141.	4.7	55
11	The Multiprocess Degradation of PEMFC Performance Due to Sulfur Dioxide Contamination and Its Recovery. <i>Journal of the Electrochemical Society</i> , 2010, 157, B20.	2.9	49
12	Effect of Selected Airborne Contaminants on PEMFC Performance. <i>Journal of the Electrochemical Society</i> , 2014, 161, F280-F290.	2.9	47
13	Analysis of the SO ₂ Contamination Effect on the Oxygen Reduction Reaction in PEMFCs by Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2012, 159, B524-B530.	2.9	46
14	Investigation of self-humidifying membranes based on sulfonated poly(ether ether ketone) hybrid with sulfated zirconia supported Pt catalyst for fuel cell applications. <i>Journal of Power Sources</i> , 2007, 168, 323-329.	7.8	43
15	Quantitative ranking criteria for PEMFC contaminants. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6784-6789.	7.1	34
16	Two dimensional modeling study of PBI/H ₃ PO ₄ high temperature PEMFCs based on electrochemical methods. <i>Journal of Power Sources</i> , 2006, 160, 1026-1034.	7.8	27
17	PEMFC cathode catalyst contamination evaluation with a RRDE-Acetonitrile. <i>Electrochimica Acta</i> , 2014, 134, 272-280.	5.2	26
18	Investigation of the Ag-SiO ₂ /sulfonated poly(biphenyl ether sulfone) composite membranes for fuel cell. <i>Journal of Membrane Science</i> , 2007, 296, 9-14.	8.2	25

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19	Effect of contaminant mixtures in air on proton exchange membrane fuel cell performance. Journal of Power Sources, 2019, 413, 86-97.	7.8	21
20	Influence of cell temperature on sulfur dioxide contamination in proton exchange membrane fuel cells. Journal of Power Sources, 2014, 247, 40-48.	7.8	17
21	Focusing Research by Developing Performance Related Selection Criteria for PEMFC Contaminants. ECS Transactions, 2011, 41, 279-286.	0.5	16
22	Evaluation of cathode contamination with Ca ²⁺ in proton exchange membrane fuel cells. Electrochimica Acta, 2018, 259, 510-516.	5.2	15
23	Liquid Water Scavenging of PEMFC Contaminants. Journal of the Electrochemical Society, 2014, 161, E3357-E3364.	2.9	14
24	Chlorobenzene Poisoning and Recovery of Platinum-Based Cathodes in Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2015, 119, 20328-20338.	3.1	14
25	Effect of Acetonitrile Contamination on Long-Term Degradation of Proton Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F3191-F3199.	2.9	13
26	PEMFC Cathode Catalyst Contamination Evaluation with a RRDE- Propene and Naphthalene. Electrochimica Acta, 2014, 138, 437-446.	5.2	12
27	PEMFC Cathode Catalyst Contamination Evaluation with a RRDE- Acetylene. Electrochimica Acta, 2014, 133, 65-72.	5.2	12
28	PEMFC cathode catalyst contamination evaluation with a RRDE-methyl methacrylate. International Journal of Hydrogen Energy, 2014, 39, 18351-18361.	7.1	11
29	Relationships between PEMFC Cathode Kinetic Losses and Contaminants's Dipole Moment and Adsorption Energy on Pt. Journal of the Electrochemical Society, 2016, 163, F247-F254.	2.9	11
30	The Impact of SO ₂ on the Degradation of MEA Components in PEMFCs. ECS Transactions, 2010, 28, 183-191.	0.5	9
31	Acetonitrile contamination in the cathode of proton exchange membrane fuel cells and cell performance recovery. Applied Energy, 2019, 242, 239-247.	10.1	9
32	The ionic conductivity and catalyst activity effects of acetonitrile on proton exchange membrane fuel cells. Electrochemistry Communications, 2016, 66, 49-52.	4.7	8
33	Impact of operating conditions on the acetylene contamination in the cathode of proton exchange membrane fuel cells. Journal of Power Sources, 2017, 372, 134-144.	7.8	7
34	Sulfur Dioxide Contamination in PEMFCs: Degradation and Recovery of Performance. ECS Transactions, 2008, 16, 873-880.	0.5	5
35	Electrochemical Impedance Spectroscopy Analysis on SO ₂ Contamination in PEMFCs. ECS Transactions, 2010, 28, 313-323.	0.5	5
36	Bromomethane Contamination in the Cathode of Proton Exchange Membrane Fuel Cells. Electrochimica Acta, 2016, 213, 482-489.	5.2	5

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37	Acetylene Contamination Mechanisms in the Cathode of Proton Exchange Membrane Fuel Cells. ChemElectroChem, 2017, 4, 655-670.	3.4	4
38	Effects of Ethylene Glycol and Caprolactam on the ORR and HOR Performances of Pt/C Catalysts. Journal of the Electrochemical Society, 2016, 163, F1618-F1626.	2.9	3
39	Tolerance and mitigation strategies of proton exchange membrane fuel cells subject to acetylene contamination. International Journal of Hydrogen Energy, 2018, 43, 17475-17479.	7.1	3
40	Impact of the Cathode Pt Loading on PEMFC Contamination by Several Airborne Contaminants. Molecules, 2020, 25, 1060.	3.8	3
41	Effect of Potential on SO ₂ Adsorption onto Pt/C Catalyst for PEMFCs. ECS Transactions, 2011, 35, 157-166.	0.5	1