

Tatyana V Reshetenko

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,662
citations

257450

24
h-index

302126

39
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all docs

59
docs citations

59
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon capacious Ni-Cu-Al ₂ O ₃ catalysts for high-temperature methane decomposition. <i>Applied Catalysis A: General</i> , 2003, 247, 51-63.	4.3	214
2	Iron-containing catalysts of methane decomposition: accumulation of filamentous carbon. <i>Applied Catalysis A: General</i> , 2002, 228, 53-63.	4.3	136
3	Systematic study of back pressure and anode stoichiometry effects on spatial PEMFC performance distribution. <i>Electrochimica Acta</i> , 2011, 56, 8700-8710.	5.2	105
4	Cathode structure optimization for air-breathing DMFC by application of pore-forming agents. <i>Journal of Power Sources</i> , 2007, 171, 433-440.	7.8	53
5	Study of low concentration CO poisoning of Pt anode in a proton exchange membrane fuel cell using spatial electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2014, 269, 344-362.	7.8	53
6	Performance of a direct methanol fuel cell (DMFC) at low temperature: Cathode optimization. <i>Journal of Power Sources</i> , 2006, 160, 925-932.	7.8	48
7	A segmented cell approach for studying the effects of serpentine flow field parameters on PEMFC current distribution. <i>Electrochimica Acta</i> , 2013, 88, 571-579.	5.2	48
8	Mesoporous textured Fe-N-C electrocatalysts as highly efficient cathodes for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 520, 230819.	7.8	46
9	The Effect of the Anode Loading and Method of MEA Fabrication on DMFC Performance. <i>Fuel Cells</i> , 2007, 7, 238-245.	2.4	45
10	Application of a segmented cell setup to detect pinhole and catalyst loading defects in proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2012, 76, 16-25.	5.2	44
11	Modification of cathode structure by introduction of CNT for air-breathing DMFC. <i>Electrochimica Acta</i> , 2008, 53, 3043-3049.	5.2	43
12	Spatial proton exchange membrane fuel cell performance under carbon monoxide poisoning at a low concentration using a segmented cell system. <i>Journal of Power Sources</i> , 2012, 218, 412-423.	7.8	39
13	PEM Fuel Cell Characterization by Means of the Physical Model for Impedance Spectra. <i>Journal of the Electrochemical Society</i> , 2015, 162, F627-F633.	2.9	37
14	Study of acetylene poisoning of Pt cathode on proton exchange membrane fuel cell spatial performance using a segmented cell system. <i>Journal of Power Sources</i> , 2015, 287, 401-415.	7.8	35
15	Separation Method for Oxygen Mass Transport Coefficient in Gas and Ionomer Phases in PEMFC GDE. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1089-F1100.	2.9	34
16	Comparison of Two Physical Models for Fitting PEM Fuel Cell Impedance Spectra Measured at a Low Air Flow Stoichiometry. <i>Journal of the Electrochemical Society</i> , 2016, 163, F238-F246.	2.9	34
17	Tolerance of non-platinum group metals cathodes proton exchange membrane fuel cells to air contaminants. <i>Journal of Power Sources</i> , 2016, 324, 556-571.	7.8	34
18	Effects of local variations of the gas diffusion layer properties on PEMFC performance using a segmented cell system. <i>Electrochimica Acta</i> , 2012, 80, 368-376.	5.2	32

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19	Systematic studies of the gas humidification effects on spatial PEMFC performance distributions. <i>Electrochimica Acta</i> , 2012, 69, 220-229.	5.2	32
20	Study of the acetonitrile poisoning of platinum cathodes on proton exchange membrane fuel cell spatial performance using a segmented cell system. <i>Journal of Power Sources</i> , 2015, 293, 929-940.	7.8	30
21	Variation of PEM Fuel Cell Physical Parameters with Current: Impedance Spectroscopy Study. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1100-F1106.	2.9	30
22	Electrochemical analysis of polymer electrolyte membrane fuel cell operated with dry-air feed. <i>Journal of Power Sources</i> , 2009, 193, 515-522.	7.8	29
23	Study of degradation and spatial performance of low Pt-loaded proton exchange membrane fuel cells under exposure to sulfur dioxide in an oxidant stream. <i>Journal of Power Sources</i> , 2020, 458, 228032.	7.8	26
24	Design of PGM-free cathodic catalyst layers for advanced PEM fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121424.	20.2	26
25	Study of the aromatic hydrocarbons poisoning of platinum cathodes on proton exchange membrane fuel cell spatial performance using a segmented cell system. <i>Journal of Power Sources</i> , 2016, 333, 237-246.	7.8	25
26	Impedance Spectroscopy Study of the PEM Fuel Cell Cathode with Nonuniform Nafion Loading. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3016-E3021.	2.9	25
27	Multianalytical Study of the PTFE Content Local Variation of the PEMFC Gas Diffusion Layer. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1305-F1315.	2.9	23
28	A Model for Extraction of Spatially Resolved Data from Impedance Spectrum of a PEM Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2018, 165, F291-F296.	2.9	23
29	Analysis of alkaline exchange membrane fuel cells performance at different operating conditions using DC and AC methods. <i>Journal of Power Sources</i> , 2018, 375, 185-190.	7.8	22
30	Poisoning effects of sulfur dioxide in an air stream on spatial proton exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2019, 438, 226949.	7.8	22
31	Impedance Spectroscopy Characterization of Oxygen Transport in Low and High Pt Loaded PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1633-F1640.	2.9	21
32	Distribution of Relaxation Times: A Tool for Measuring Oxygen Transport Resistivity of a Low Pt PEM Fuel Cell Cathode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144505.	2.9	21
33	Impact of a gas diffusion layer's structural and textural properties on oxygen mass transport resistance in the cathode and performance of proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2021, 371, 137752.	5.2	20
34	Electron and proton conductivity of Fe-N-C cathodes for PEM fuel cells: A model-based electrochemical impedance spectroscopy measurement. <i>Electrochemistry Communications</i> , 2020, 118, 106795.	4.7	19
35	Effects of local gas diffusion layer gas permeability variations on spatial proton exchange membrane fuel cells performance. <i>Journal of Power Sources</i> , 2013, 241, 597-607.	7.8	17
36	Effects of propylene, methyl methacrylate and isopropanol poisoning on spatial performance of a proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2018, 378, 216-224.	7.8	17

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37	On the distribution of local current density along a PEM fuel cell cathode channel. <i>Electrochemistry Communications</i> , 2019, 101, 35-38.	4.7	17
38	On the Origin of High Frequency Impedance Feature in a PEM Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2019, 166, F1253-F1257.	2.9	17
39	Lithium-Ion Cell Fault Detection by Single-Point Impedance Diagnostic and Degradation Mechanism Validation for Series-Wired Batteries Cycled at 0 °C. <i>Energies</i> , 2018, 11, 834.	3.1	16
40	Understanding the distribution of relaxation times of a low-Pt PEM fuel cell. <i>Electrochimica Acta</i> , 2021, 391, 138954.	5.2	16
41	Nafion film transport properties in a low-Pt PEM fuel cell: impedance spectroscopy study. <i>RSC Advances</i> , 2019, 9, 38797-38806.	3.6	15
42	Spatial proton exchange membrane fuel cell performance under bromomethane poisoning. <i>Journal of Power Sources</i> , 2017, 342, 135-147.	7.8	13
43	Impedance Spectroscopy Characterization of PEM Fuel Cells with Fe-N-C-Based Cathodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, F653-F660.	2.9	11
44	A Model for Local Impedance: Validation of the Model for Local Parameters Recovery from a Single Spectrum of PEM Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2019, 166, F431-F439.	2.9	11
45	The Effect of Proton Conductivity of Fe-N-C-Based Cathode on PEM Fuel cell Performance. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084501.	2.9	10
46	Determination of oxygen mass transport resistance in proton exchange membrane fuel cells with an open flow field architecture. <i>Electrochimica Acta</i> , 2021, 387, 138529.	5.2	10
47	Spatial performance of high- and low-Pt loaded proton exchange membrane fuel cells under cathode exposure to nitrogen dioxide. <i>Journal of Power Sources</i> , 2021, 492, 229657.	7.8	8
48	Influence of Air Impurities on the Performance of Nanostructured PEMFC Catalysts. , 2018, , 407-441.		4
49	Exploration of operating conditions on oxygen mass transport resistance and performance of PEM fuel cells: Effects of inlet gas humidification. <i>Electrochemical Science Advances</i> , 0, , e2100134.	2.8	2
50	Identification of Gas Diffusion Layer PTFE Content Local Anomalies Using a Segmented Cell System. <i>ECS Transactions</i> , 2011, 41, 539-548.	0.5	1
51	Impedance Spectroscopy Measurements of Ionomer Film Oxygen Transport Resistivity in Operating Low-Pt PEM Fuel Cell. <i>Membranes</i> , 2021, 11, 985.	3.0	1
52	Modern Fuel Cell Testing Laboratory. , 2017, , 611-647.		0
53	Two States of the Cathode Catalyst Layer Operation in a PEM Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2018, 165, F821-F826.	2.9	0
54	How Critical Is Avoiding Critical Metals in Electrocatalysis? Lessons Learned from PGM-Free ORR Catalysts Development. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2280-2280.	0.0	0

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55	Effect of Cathode Proton Conductivity on PGM-free PEM Fuel Cell Performance. ECS Meeting Abstracts, 2020, MA2020-02, 2686-2686.	0.0	0
56	Interplay between PEMFC Performance, Gas Diffusion Electrode Structure and Mass Transport Properties. ECS Meeting Abstracts, 2020, MA2020-02, 2148-2148.	0.0	0
57	Comprehensive Evaluation of Mass Transport Resistance in Pemfcs with Open Flow Field and Land/Channel Architectures. ECS Meeting Abstracts, 2021, MA2021-02, 1079-1079.	0.0	0