

Takahiro Suzuki

List of Publications by Year in descending order

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33
papers

358
citations

1040056

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33
times ranked

405
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Nafion® ionomer and carbon particles on structure formation in a proton-exchange membrane fuel cell catalyst layer fabricated by the decal-transfer method. International Journal of Hydrogen Energy, 2011, 36, 12361-12369.	7.1	98
2	Topology optimization for the design of flow fields in a redox flow battery. Structural and Multidisciplinary Optimization, 2018, 57, 535-546.	3.5	53
3	Ohmic resistance and constant phase element effects on cyclic voltammograms using a combined model of mass transport and equivalent circuits. Electrochimica Acta, 2017, 258, 433-441.	5.2	46
4	Investigation of porous structure formation of catalyst layers for proton exchange membrane fuel cells and their effect on cell performance. International Journal of Hydrogen Energy, 2016, 41, 20326-20335.	7.1	39
5	Fabrication and performance evaluation of structurally-controlled PEMFC catalyst layers by blending platinum-supported and stand-alone carbon black. Journal of Power Sources, 2013, 233, 269-276.	7.8	24
6	Effects of Voltage-Dependence of the Constant Phase Element and Ohmic Parameters in the Modeling and Simulation of Cyclic Voltammograms. Journal of the Electrochemical Society, 2020, 167, 166506.	2.9	24
7	Effect of blending carbon nanoparticles and nanotubes on the formation of porous structure and the performance of proton exchange membrane fuel cell catalyst layers. Journal of Power Sources, 2015, 286, 109-117.	7.8	23
8	Determination of Constant Phase Element Parameters under Cyclic Voltammetry Conditions Using a Semi-theoretical Equation. Electrochemistry, 2019, 87, 204-213.	1.4	13
9	Analysis of Ionomer Distribution and Pt/C Agglomerate Size in Catalyst Layers by Two-Stage Ion-Beam Processing. Journal of the Electrochemical Society, 2020, 167, 124513.	2.9	10
10	Investigation of Gas Transport Properties of PEMFC Catalyst Layers Using a Microfluidic Device. Journal of the Electrochemical Society, 2020, 167, 124519.	2.9	6
11	Electrochemical cell recharging by solvent separation and transfer processes. Scientific Reports, 2022, 12, 3739.	3.3	5
12	Characterization of Catalyst Inks By Rheology and Microscopic Particle Properties. ECS Transactions, 2018, 86, 193-198.	0.5	4
13	Measurement and Analysis of Gas Transport Properties in Catalyst Layers of Polymer Electrolyte Fuel Cells with Different Ionomer to Carbon Ratio. ECS Transactions, 2020, 98, 49-54.	0.5	4
14	Composition and evaluation of single-layer electrode proton exchange membrane fuel cells for mass transfer analysis. Journal of Thermal Science and Technology, 2016, 11, JTST0043-JTST0043.	1.1	3
15	Simultaneous in situ measurements and numerical analysis of mass transfer in polymer electrolyte fuel cell electrode slurries during drying. Journal of Thermal Science and Technology, 2021, 16, JTST0012-JTST0012.	1.1	3
16	PARTICLE TRANSFER AND STRUCTURE FORMATION IN CATALYST INK DURING DRYING PROCESS. , 2018, , .		1
17	Investigation of Gas Transport Properties of PEMFC Catalyst Layers by Using a Microfluidic Device. ECS Meeting Abstracts, 2019, , .	0.0	1
18	Investigation of Mass Transport Properties of Fibrous Electrodes in Vanadium Redox Flow Batteries By Lattice Boltzmann Simulation. ECS Meeting Abstracts, 2020, MA2020-02, 2685-2685.	0.0	1

#	ARTICLE	IF	CITATIONS
19	Investigation of Gas Transport Properties of PEMFC Catalyst Layers by Using a Microfluidic Device. ECS Transactions, 2019, 92, 175-181.	0.5	0
20	Investigation of Effects of Engineered Pores in a Fibrous Electrode on Reaction and Transport Properties in Vanadium Redox Flow Battery By Lattice Boltzmann Simulation. ECS Meeting Abstracts, 2021, MA2021-01, 217-217.	0.0	0
21	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
22	Characterization of Agglomerated Particles in a PEFC Electrode Slurry by Soft X-Ray Radiography. ECS Transactions, 2021, 104, 197-202.	0.5	0
23	Development of an in-situ Sensing Technique of a Porous Electrode Formation Process. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2017, 25, 71-74.	0.0	0
24	Characterization of Catalyst Inks By Rheology and Microscopic Particle Properties. ECS Meeting Abstracts, 2018, , .	0.0	0
25	Determination of Surface Area and Reaction Rate Constant from Cyclic Voltammetry Considering Voltage-Dependence of the CPE Parameters. ECS Meeting Abstracts, 2019, , .	0.0	0
26	Fabrication and Evaluation of Catalyst Layers in Polymer Electrolyte Fuel Cells: A Comparison of Decal and Inkjet Printing Techniques. ECS Transactions, 2020, 98, 55-59.	0.5	0
27	Investigation of agglomeration and sedimentation of PEFC electrode slurries by a laminated microfluidic device. Transactions of the JSME (in Japanese), 2020, 86, 19-00364-19-00364.	0.2	0
28	Electrochemical and Flow Fields Simulation in Ordered and Disordered Fibrous Electrodes By High Schmidt Number Lattice Boltzmann Method. ECS Meeting Abstracts, 2021, MA2021-02, 169-169.	0.0	0
29	Measurement and Analysis of Gas Transport Properties in Catalyst Layers of Polymer Electrolyte Fuel Cells with Different Ionomer to Carbon Ratio. ECS Meeting Abstracts, 2020, MA2020-02, 2134-2134.	0.0	0
30	Rheological and Impedance Measurements and Analysis of Catalyst Ink Prepared By Different Mixing Processes. ECS Meeting Abstracts, 2020, MA2020-02, 2154-2154.	0.0	0
31	Fabrication and Evaluation of Catalyst Layers in Polymer Electrolyte Fuel Cells: A Comparison of Decal and Inkjet Printing Techniques. ECS Meeting Abstracts, 2020, MA2020-02, 2135-2135.	0.0	0
32	Characterization of Agglomerated Particles in a PEFC Electrode Slurry by Soft X-Ray Radiography. ECS Meeting Abstracts, 2021, MA2021-02, 1062-1062.	0.0	0
33	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