

Akihiro Nakano

List of Publications by Year in descending order

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61
papers

1,723
citations

377584

21
h-index

312153

41
g-index

62
all docs

62
docs citations

62
times ranked

1477
citing authors

#	ARTICLE	IF	CITATIONS
1	Totalized Hydrogen Energy Utilization System. , 2018, , 385-406.		0
2	Investigations on electrode configurations for anion exchange membrane electrolysis. Journal of Applied Electrochemistry, 2018, 48, 305-316.	1.5	37
3	Experimental study of temperature sensor for an ocean-going liquid hydrogen (LH2) carrier. Cryogenics, 2018, 91, 112-117.	0.9	1
4	Experimental investigation of electrolytic solution for anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2018, 43, 17030-17039.	3.8	67
5	Experimental study on laboratory scale Totalized Hydrogen Energy Utilization System using wind power data. International Journal of Hydrogen Energy, 2017, 42, 13827-13838.	3.8	21
6	Application of a self-supporting microporous layer to gas diffusion layers of proton exchange membrane fuel cells. Journal of Power Sources, 2017, 342, 393-404.	4.0	55
7	Development of Fe-based superconducting wires for liquid-hydrogen level sensors. Journal of Physics: Conference Series, 2017, 871, 012061.	0.3	1
8	Experimental study of liquid level gauge for liquid hydrogen using Helmholtz resonance technique. Cryogenics, 2016, 77, 43-48.	0.9	4
9	Efficiency of unitized reversible fuel cell systems. International Journal of Hydrogen Energy, 2016, 41, 5803-5815.	3.8	48
10	Cross-permeation and consumption of hydrogen during proton exchange membrane electrolysis. International Journal of Hydrogen Energy, 2016, 41, 20439-20446.	3.8	54
11	Research and development of a laboratory scale Totalized Hydrogen Energy Utilization System. International Journal of Hydrogen Energy, 2016, 41, 1224-1236.	3.8	27
12	Experimental study on a laboratory scale Totalized Hydrogen Energy Utilization System for solar photovoltaic application. Applied Energy, 2016, 177, 309-322.	5.1	17
13	Effect of through-plane polytetrafluoroethylene distribution in gas diffusion layers on performance of proton exchange membrane fuel cells. Journal of Power Sources, 2016, 306, 289-299.	4.0	39
14	Effect of through-plane polytetrafluoroethylene distribution in a gas diffusion layer on a polymer electrolyte unitized reversible fuel cell. International Journal of Hydrogen Energy, 2015, 40, 16556-16565.	3.8	24
15	Research and development for a metal hydride tank with double coil type heat exchanger below 1.0MPa (G) operation. International Journal of Hydrogen Energy, 2015, 40, 2663-2672.	3.8	15
16	Effect of through-Plane Polytetrafluoroethylene Distribution in a Gas Diffusion Layer. ECS Transactions, 2014, 64, 501-508.	0.3	1
17	Effect of through-plane distribution of polytetrafluoroethylene in carbon paper on in-plane gas permeability. Journal of Power Sources, 2014, 248, 822-830.	4.0	44
18	Effect of the Metal Hydride Tank Structure on the Reaction Heat Recovery for the Totalized Hydrogen Energy Utilization System. Journal of International Council on Electrical Engineering, 2013, 3, 103-109.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Influence of pore structural properties of current collectors on the performance of proton exchange membrane electrolyzer. <i>Electrochimica Acta</i> , 2013, 100, 242-248.	2.6	125
20	Metal hydride bed system model for renewable source driven Regenerative Fuel Cell. <i>Journal of Alloys and Compounds</i> , 2013, 580, S406-S409.	2.8	22
21	Study on a metal hydride tank to support energy storage for renewable energy. <i>Journal of Alloys and Compounds</i> , 2013, 580, S418-S422.	2.8	26
22	A Novel Lightweight Polymer Electrolyte Fuel Cell Stack for Robot Systems. <i>ECS Transactions</i> , 2013, 50, 805-815.	0.3	1
23	Effect of Through-Plane Polytetrafluoroethylene Distribution in a Gas Diffusion Layer on a Polymer Electrolyte Unitized Reversible Fuel Cell. <i>ECS Transactions</i> , 2013, 58, 1059-1068.	0.3	9
24	Effect of PTFE contents in the Gas Diffusion Layers of Polymer Electrolyte-based Unitized Reversible Fuel Cells. <i>Journal of International Council on Electrical Engineering</i> , 2012, 2, 171-177.	0.4	18
25	Experimental Study on a Metal Hydride Tank for the Totalized Hydrogen Energy Utilization System. <i>Energy Procedia</i> , 2012, 29, 463-468.	1.8	19
26	Study on absorption/desorption characteristics of a metal hydride tank for boil-off gas from liquid hydrogen. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5056-5062.	3.8	10
27	Experimental study on porous current collectors of PEM electrolyzers. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7418-7428.	3.8	135
28	Effect of capillary pressure on performance of a heat pipe: Numerical approach with FEM. <i>Applied Thermal Engineering</i> , 2012, 32, 93-99.	3.0	21
29	Effect of titanium powder loading in gas diffusion layer of a polymer electrolyte unitized reversible fuel cell. <i>Journal of Power Sources</i> , 2012, 202, 108-113.	4.0	67
30	Effect of Titanium Powder Loading in Microporous Layer on a Polymer Electrolyte Unitized Reversible Fuel Cell. <i>ECS Transactions</i> , 2011, 41, 469-477.	0.3	9
31	The Development of the Totalized Hydrogen Energy Utilization System for Commercial Buildings. <i>Journal of International Council on Electrical Engineering</i> , 2011, 1, 194-199.	0.4	7
32	Design Concept and the Performance of a Metal Hydride Hydrogen Storage Tank in Totalized Hydrogen Energy Utilization System. , 2011, , .		0
33	Properties of Nafion membranes under PEM water electrolysis conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10527-10540.	3.8	246
34	Experimental study of hydrogen storage with reaction heat recovery using metal hydride in a totalized hydrogen energy utilization system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11767-11776.	3.8	41
35	Numerical simulation of the hydrogen storage with reaction heat recovery using metal hydride in the totalized hydrogen energy utilization system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10845-10854.	3.8	31
36	Influence of properties of gas diffusion layers on the performance of polymer electrolyte-based unitized reversible fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1740-1753.	3.8	121

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37	Small-scale hydrogen liquefaction with a two-stage Gifford-McMahon cycle refrigerator. International Journal of Hydrogen Energy, 2010, 35, 9088-9094.	3.8	20
38	Effect of flow regime of circulating water on a proton exchange membrane electrolyzer. International Journal of Hydrogen Energy, 2010, 35, 9550-9560.	3.8	116
39	Influence of Different Gas Diffusion Layers on the Water Management of Polymer Electrolyte Unitized Reversible Fuel Cell. ECS Transactions, 2010, 33, 945-954.	0.3	15
40	Visualization techniques applied to thermo-fluid phenomena in cryogenic fluids. Cryogenics, 2009, 49, 528-534.	0.9	3
41	PIV MEASUREMENT RESULT OF SUPERFLUID HE II THERMAL COUNTERFLOW JET. AIP Conference Proceedings, 2008, , .	0.3	3
42	STUDY ON THERMAL DIFFUSION IN ARTIFICIAL AIR NEAR THE CRITICAL POINT. AIP Conference Proceedings, 2008, , .	0.3	2
43	Studies on piston and solet effects in a binary mixture supercritical fluid. International Journal of Heat and Mass Transfer, 2007, 50, 4678-4687.	2.5	15
44	Liquid volume measurement with a closed Helmholtz resonator under micro-gravity conditions. Cryogenics, 2006, 46, 126-131.	0.9	13
45	Liquid volume measurement for cryogen under microgravity condition. Microgravity Science and Technology, 2006, 18, 190-195.	0.7	8
46	Control of Secondary Flow in a Double-inlet Pulse Tube Refrigerator. AIP Conference Proceedings, 2006, , .	0.3	0
47	Piston effect in supercritical nitrogen around the pseudo-critical line. International Communications in Heat and Mass Transfer, 2005, 32, 1152-1164.	2.9	27
48	Visualization for heat and mass transport phenomena in supercritical artificial air. Cryogenics, 2005, 45, 557-565.	0.9	16
49	Helmholtz resonance technique for measuring liquid volumes under micro-gravity conditions. Microgravity Science and Technology, 2005, 17, 64-70.	0.7	6
50	Dependence of convective secondary flow on inclination angle in an inclined pulse tube refrigerator revealed by visualization. Cryogenics, 2004, 44, 101-107.	0.9	13
51	Numerical simulation for the Piston effect and thermal diffusion observed in supercritical nitrogen. Cryogenics, 2004, 44, 867-873.	0.9	21
52	Study of Liquid Volume Measurement for Cryogens on Orbit.. TEION KOGAKU (Journal of Cryogenics) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	3
53	Application of laser holography interferometer to heat transport phenomena near the critical point of nitrogen. Cryogenics, 2001, 41, 429-435.	0.9	28
54	Investigation of technique for measuring liquid volume under micro-gravity conditions. Cryogenics, 2001, 41, 817-823.	0.9	6

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55	Investigation of large dynamic range helium II liquid/vapor phase separator for SIRTf. Cryogenics, 1999, 39, 471-479.	0.9	2
56	He II liquid/vapour phase separator for large dynamic range operation. Cryogenics, 1996, 36, 823-828.	0.9	9
57	Flow structure of thermal counterflow jet in He II. Cryogenics, 1994, 34, 991-995.	0.9	16
58	Velocity measurement of He II thermal counterflow jet accompanied by second sound Helmholtz oscillation. Cryogenics, 1994, 34, 179-185.	0.9	14
59	An experimental study of a superfluid turbulent thermal counterflow jet using a laser Doppler velocimeter. Physica B: Condensed Matter, 1994, 194-196, 713-714.	1.3	1
60	He II Flow Phenomena Through Fountain Effect Pump Element. , 1990, , 231-238.		1
61	Laser Doppler Velocimeter Measurement of Thermal Counterflow JET in He II. , 1990, , 255-260.		0