SÃ¸ren Juhl Andreasen

List of Publications by Year
in descending order

67 papers	2,011 citations	236925 25 h-index	276875 41 g-index
68 all docs	68 docs citations	68 times ranked	1662 citing authors

#	Article	IF	Citations
1	High temperature PEM fuel cell performance characterisation with CO and CO2 using electrochemical impedance spectroscopy. International Journal of Hydrogen Energy, 2011, 36, 9815-9830.	7.1	131
2	Accelerated Lifetime Testing Methodology for Lifetime Estimation of Lithium-Ion Batteries Used in Augmented Wind Power Plants. IEEE Transactions on Industry Applications, 2014, 50, 4006-4017.	4.9	127
3	Y-Source Boost DC/DC Converter for Distributed Generation. IEEE Transactions on Industrial Electronics, 2015, 62, 1059-1069.	7.9	109
4	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications â€" An overview. , 2014, , .		85
5	Modelling and evaluation of heating strategies for high temperature polymer electrolyte membrane fuel cell stacks. International Journal of Hydrogen Energy, 2008, 33, 4655-4664.	7.1	83
6	An Advanced HIL Simulation Battery Model for Battery Management System Testing. IEEE Transactions on Industry Applications, 2016, 52, 5086-5099.	4.9	76
7	Characterisation and Modelling of a High Temperature PEM Fuel Cell Stack using Electrochemical Impedance Spectroscopy. Fuel Cells, 2009, 9, 463-473.	2.4	72
8	Analysis of accelerated degradation of a HT-PEM fuel cell caused by cell reversal in fuel starvation condition. International Journal of Hydrogen Energy, 2015, 40, 2833-2839.	7.1	71
9	Numerical model of a thermoelectric generator with compact plate-fin heat exchanger for high temperature PEM fuel cell exhaust heat recovery. International Journal of Hydrogen Energy, 2012, 37, 8490-8498.	7.1	65
10	Directly connected series coupled HTPEM fuel cell stacks to a Li-ion battery DC bus for a fuel cell electrical vehicle. International Journal of Hydrogen Energy, 2008, 33, 7137-7145.	7.1	62
11	Evaluation of Fuel-Cell Range Extender Impact on Hybrid Electrical Vehicle Performance. IEEE Transactions on Vehicular Technology, 2013, 62, 50-60.	6.3	58
12	Diagnosis of lithium-ion batteries state-of-health based on electrochemical impedance spectroscopy technique. , 2014, , .		58
13	Experimental investigation of thermoelectric power generation versus coolant pumping power in a microchannel heat sink. International Communications in Heat and Mass Transfer, 2012, 39, 1054-1058.	5.6	57
14	Control and experimental characterization of a methanol reformer for a 350ÂW high temperature polymer electrolyte membrane fuel cell system. International Journal of Hydrogen Energy, 2013, 38, 1676-1684.	7.1	49
15	System Modeling and Validation of a Thermoelectric Fluidic Power Source: Proton Exchange Membrane Fuel Cell and Thermoelectric Generator (PEMFC-TEG). Journal of Electronic Materials, 2010, 39, 1593-1600.	2.2	47
16	Experimental investigation of carbon monoxide poisoning effect on a PBI/H3PO4 high temperature polymer electrolyte membrane fuel cell: Influence of anode humidification and carbon dioxide. International Journal of Hydrogen Energy, 2015, 40, 14932-14941.	7.1	45
17	Fault detection and isolation of high temperature proton exchange membrane fuel cell stack under the influence of degradation. Journal of Power Sources, 2017, 359, 37-47.	7.8	44
18	Performance and endurance of a high temperature PEM fuel cell operated on methanol reformate. International Journal of Hydrogen Energy, 2014, 39, 18343-18350.	7.1	42

#	ARTICLE	IF	CITATIONS
19	Investigating the effects of methanol-water vapor mixture on a PBI-based high temperature PEM fuel cell. International Journal of Hydrogen Energy, 2012, 37, 18231-18242.	7.1	41
20	Experimental Characterization of the Poisoning Effects of Methanol-Based Reformate Impurities on a PBI-Based High Temperature PEM Fuel Cell. Energies, 2012, 5, 4251-4267.	3.1	40
21	A new modified-serpentine flow field for application in high temperature polymer electrolyte fuel cell. Applied Energy, 2017, 195, 13-22.	10.1	40
22	Optimization of a thermoelectric generator subsystem for high temperature PEM fuel cell exhaust heat recovery. International Journal of Hydrogen Energy, 2014, 39, 6637-6645.	7.1	36
23	Test of hybrid power system for electrical vehicles using a lithium-ion battery pack and a reformed methanol fuel cell range extender. International Journal of Hydrogen Energy, 2014, 39, 1856-1863.	7.1	34
24	Experimental study of cell reversal of a high temperature polymer electrolyte membrane fuel cell caused by H2 starvation. International Journal of Hydrogen Energy, 2015, 40, 6672-6680.	7.1	32
25	Dynamic Model of the High Temperature Proton Exchange Membrane Fuel Cell Stack Temperature. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	28
26	An EIS alternative for impedance measurement of a high temperature PEM fuel cell stack based on current pulse injection. International Journal of Hydrogen Energy, 2017, 42, 15851-15860.	7.1	28
27	Datasheet-based modeling of Li-Ion batteries. , 2012, , .		26
28	A Transient Fuel Cell Model to Simulate HTPEM Fuel Cell Impedance Spectra. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	25
29	System model development for a methanol reformed 5ÂkW high temperature PEM fuel cell system. International Journal of Hydrogen Energy, 2015, 40, 13080-13089.	7.1	25
30	Multi-Objective Control of Balancing Systems for Li-Ion Battery Packs: A Paradigm Shift?. , 2014, , .		24
31	Comparative study of the break in process of post doped and solâ€“gel high temperature proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 14959-14968.	7.1	24
32	Dynamic modeling and experimental investigation of a high temperature PEM fuel cell stack. International Journal of Hydrogen Energy, 2016, 41, 4729-4739.	7.1	24
33	Impedance characterization of high temperature proton exchange membrane fuel cell stack under the influence of carbon monoxide and methanol vapor. International Journal of Hydrogen Energy, 2017, 42, 21901-21912.	7.1	24
34	Potential Usage of Thermoelectric Devices in a High-Temperature Polymer Electrolyte Membrane (PEM) Fuel Cell System: Two Case Studies. Journal of Electronic Materials, 2012, 41, 1838-1844.	2.2	23
35	Performance Degradation Tests of Phosphoric Acid Doped Polybenzimidazole Membrane Based High Temperature Polymer Electrolyte Membrane Fuel Cells. Journal of Fuel Cell Science and Technology, 2015, 12, .	0.8	21
36	400 W High Temperature PEM Fuel Cell Stack Test. ECS Transactions, 2007, 5, 197-207.	0.5	18

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37	Short term energy storage for grid support in wind power applications. , 2012, , .		18
38	Thermal Management Optimization of a Thermoelectric-Integrated Methanol Evaporator Using a Compact CFD Modeling Approach. Journal of Electronic Materials, 2013, 42, 2035-2042.	2.2	15
39	Evaluation of a Novel BEV Concept Based on Fixed and Swappable Li-Ion Battery Packs. IEEE Transactions on Industry Applications, 2016, 52, 5073-5085.	4.9	14
40	Pt/C Electrocatalyst Synthesis from Recycling of the Spent PEMFC Membrane Electrode Assembly: A Closed Loop Circular Economy. Journal of the Electrochemical Society, 2019, 166, F963-F970.	2.9	14
41	Continuous durability study of a high temperature polymer electrolyte membrane fuel cell stack. Applied Energy, 2020, 277, 115588.	10.1	14
42	Modeling and Implementation of a 1 kW, Air Cooled HTPEM Fuel Cell in a Hybrid Electrical Vehicle. ECS Transactions, 2008, 12, 639-650.	0.5	13
43	Gas composition modeling in a reformed Methanol Fuel Cell system using adaptive Neuro-Fuzzy Inference Systems. International Journal of Hydrogen Energy, 2013, 38, 10577-10584.	7.1	13
44	Estimating Important Electrode Parameters of High Temperature PEM Fuel Cells by Fitting a Model to Polarisation Curves and Impedance Spectra. ECS Transactions, 2015, 68, 13-34.	0.5	10
45	Evaluation of different methods for measuring the impedance of Lithium-ion batteries during ageing. , 2015, , .		10
46	Modeling and control of the output current of a Reformed Methanol Fuel Cell system. International Journal of Hydrogen Energy, 2015, 40, 16521-16531.	7.1	9
47	An improved parametrization method for Li-ion linear static Equivalent Circuit battery Models based on direct current resistance measurement. , 2015, , .		9
48	Determination of optimal reformer temperature in a reformed methanol fuel cell system using ANFIS models and numerical optimization methods. International Journal of Hydrogen Energy, 2015, 40, 9505-9514.	7.1	9
49	Effects of Impurities on Pre-Doped and Post-Doped Membranes for High Temperature PEM Fuel Cell Stacks. Energies, 2021, 14, 2994.	3.1	9
50	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	7
51	A novel BEV concept based on fixed and swappable li-ion battery packs. , 2015, , .		7
52	Functional analysis of Battery Management Systems using multi-cell HIL simulator. , 2015, , .		7
53	Modeling of a HTPEM fuel cell using Adaptive Neuro-Fuzzy Inference Systems. International Journal of Hydrogen Energy, 2015, 40, 16814-16819.	7.1	7
54	Parametric Sensitivity Testsâ€"European Polymer Electrolyte Membrane Fuel Cell Stack Test Procedures. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	6

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55	Influence of Li-Ion Battery Models in the Sizing of Hybrid Storage Systems with Supercapacitors. , 2014, , .		6
56	Experimental investigation on the internal resistance of Lithium iron phosphate battery cells during calendar ageing. , 2013, , .		5
57	Experimental Evaluation of a Pt-based Heat Exchanger Methanol Reformer for a HTPEM Fuel Cell Stack. ECS Transactions, 2008, 12, 571-578.	0.5	3
58	EIS Characterization of the Poisoning Effects of CO and CO2 on a PBI Based HT-PEM Fuel Cell. , 2010, , .		2
59	Vapor Delivery Systems for the Study of the Effects of Reformate Gas Impurities in HT-PEM Fuel Cells. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	2
60	Diagnosis of CO Pollution in HTPEM Fuel Cell using Statistical Change Detection. IFAC-PapersOnLine, 2015, 48, 547-553.	0.9	2
61	Air source heat pump a key role in the development of smart buildings in future energy systems: Low cost and flexible experimental setup for air source heat pumps. , 2012, , .		1
62	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. , 2013, , .		1
63	Parametric Sensitivity Tests â€" European PEM Fuel Cell Stack Test Procedures. , 2014, , .		1
64	Performance Degradation Tests of Phosphoric Acid Doped PBI Membrane Based High Temperature PEM Fuel Cells. , 2014, , .		1
65	Applying hot-wire anemometry to directly measure the water balance in a proton exchange membrane fuel cell â€“ Part 2: Experimental. International Journal of Hydrogen Energy, 2016, 41, 14917-14926.	7.1	1
66	High Temperature PEM Fuel Cell Systems, Control and Diagnostics. , 2016, , 459-486.		1
67	Vapor Delivery Systems for the Study of the Effects of Reformate Gas Impurities in HT-PEM Fuel Cells. , 2011, , .		0