

Daniel Hissel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

7,157
citations

49
h-index

74
g-index

282
ext. papers

9,216
ext. citations

6.5
avg, IF

6.39
L-index

#	Paper	IF	Citations
240	Impact of the temperature on calendar aging of an open cathode fuel cell stack. <i>Journal of Power Sources</i> , 2021 , 488, 229436	8.9	4
239	Sensor development and optimization for a proton exchange membrane fuel cell system in automotive applications. <i>Journal of Power Sources</i> , 2021 , 487, 229415	8.9	3
238	Combined Cooling and Power Management Strategy for a Standalone House Using Hydrogen and Solar Energy. <i>Hydrogen</i> , 2021 , 2, 207-224	1.8	1
237	A method to estimate battery SOH indicators based on vehicle operating data only. <i>Energy</i> , 2021 , 225, 120235	7.9	10
236	A Review of DC Microgrid Energy Management Systems Dedicated to Residential Applications. <i>Energies</i> , 2021 , 14, 4308	3.1	21
235	Application of dynamic programming to optimal energy management of grid-independent hybrid railcars. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2021 , 235, 236-247	1.4	6
234	An Echo State Network for fuel cell lifetime prediction under a dynamic micro-cogeneration load profile. <i>Applied Energy</i> , 2021 , 283, 116297	10.7	10
233	Hydrogen energy systems: A critical review of technologies, applications, trends and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 146, 111180	16.2	120
232	Synthesis of degradation mechanisms and of their impacts on degradation rates on proton-exchange membrane fuel cells and lithium-ion nickel-manganese-cobalt batteries in hybrid transport applications. <i>Reliability Engineering and System Safety</i> , 2021 , 212, 107369	6.3	4
231	Hybrid fuel cell system degradation modeling methods: A comprehensive review. <i>Journal of Power Sources</i> , 2021 , 506, 230071	8.9	11
230	Signal-based diagnostic approach to enhance fuel cell durability. <i>Journal of Power Sources</i> , 2021 , 506, 230223	8.9	4
229	Hydrogen storage technologies for stationary and mobile applications: Review, analysis and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111311	16.2	50
228	Performance analysis of proton exchange membrane fuel cell in automotive applications. <i>Journal of Power Sources</i> , 2021 , 510, 230385	8.9	4
227	Energy Management of a Hybrid Tidal Turbine-Hydrogen Micro-Grid: Losses Minimization Strategy. <i>Fuel Cells</i> , 2020 , 20, 342-350	2.9	6
226	New magnetic field analyzer device dedicated for polymer electrolyte fuel cells noninvasive diagnostic. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14071-14082	6.7	3
225	Anode purge management for hydrogen utilization and stack durability improvement of PEM fuel cell systems. <i>Applied Energy</i> , 2020 , 275, 115110	10.7	24
224	Prognostics methods and degradation indexes of proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 123, 109721	16.2	49

223	Long term durability test of open-cathode fuel cell system under actual operating conditions. <i>Energy Conversion and Management</i> , 2020 , 212, 112813	10.6	20
222	Prognostic methods for proton exchange membrane fuel cell under automotive load cycling: a review. <i>IET Electrical Systems in Transportation</i> , 2020 , 10, 369-375	2.1	3
221	Data-Driven Multi-fault Diagnosis for H ₂ /O ₂ and H ₂ /Air PEMFCs. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 3-12	0.2	
220	Theoretical Comparison Analysis of Six-Phase Interleaved Boost Converter Based on SiC Semiconductor and Inverse Coupled Inductor for Fuel Cell Electric Vehicle. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 613-624	0.2	0
219	Electrochemical noise analysis of a PEM fuel cell stack under long-time operation: noise signature in the frequency domain. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 3059-3071	2.6	3
218	Design of a Methodology to Evaluate the Impact of Demand-Side Management in the Planning of Isolated/Islanded Microgrids. <i>Energies</i> , 2020 , 13, 3459	3.1	2
217	Model-based aging tolerant control with power loss prediction of Proton Exchange Membrane Fuel Cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 11242-11254	6.7	10
216	Optimal sizing of a wind, fuel cell, electrolyzer, battery and supercapacitor system for off-grid applications. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5512-5525	6.7	22
215	Degradation prediction of PEM fuel cell based on artificial intelligence. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14953-14963	6.7	30
214	Remaining useful life estimation for proton exchange membrane fuel cells using a hybrid method. <i>Applied Energy</i> , 2019 , 237, 910-919	10.7	57
213	A review of DC/DC converter-based electrochemical impedance spectroscopy for fuel cell electric vehicles. <i>Renewable Energy</i> , 2019 , 141, 124-138	8.1	61
212	A multi-scale hybrid degradation index for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2019 , 437, 226916	8.9	15
211	Effect of Load Cycling on the Performance of Fuel Cell Stacks 2019 ,		2
210	IEEE VTS Motor Vehicles Challenge 2020 - Energy Management of a Fuel Cell/Ultracapacitor/Lead-Acid Battery Hybrid Electric Vehicle 2019 ,		6
209	A Review of Model-Based Prognostic for Proton Exchange Membrane Fuel Cell under Automotive Load Cycling 2019 ,		1
208	Short-Term Prognostics of PEM Fuel Cells: A Comparative and Improvement Study. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6077-6086	8.9	22
207	Online electrochemical impedance spectroscopy detection integrated with step-up converter for fuel cell electric vehicle. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1110-1121	6.7	20
206	Modeling of a hybrid marine current-hydrogen active power generation system. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9621-9635	6.7	7

205	Fault diagnosis for fuel cell systems: A data-driven approach using high-precise voltage sensors. <i>Renewable Energy</i> , 2019 , 135, 1435-1444	8.1	26
204	Fault Diagnosis for PEMFC Systems in Consideration of Dynamic Behaviors and Spatial Inhomogeneity. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 3-11	5.4	15
203	Energetic Macroscopic Representation of a Marine Current Turbine System with Loss Minimization Control. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 106-117	8.2	18
202	Energy management hypothesis for hybrid power system of H ₂ /WT/PV/GMT via AI techniques. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3527-3541	6.7	26
201	Determination of the health state of fuel cell vehicle for a clean transportation. <i>Journal of Cleaner Production</i> , 2018 , 171, 1510-1519	10.3	18
200	Multi-Reservoir Echo State Network for Proton Exchange Membrane Fuel Cell Remaining Useful Life prediction 2018 ,		10
199	Fault Diagnosis of PEMFC Systems in the Model Space Using Reservoir Computing 2018 ,		3
198	On Maximizing the Steady-State Efficiency of a Multi-Stack Fuel Cell System 2018 ,		2
197	Battery Modeling using Real Driving Cycle and Big-Bang Big-Crunch algorithm 2018 ,		1
196	. <i>IEEE Vehicular Technology Magazine</i> , 2018 , 13, 34-39	9.9	18
195	ANOVA method applied to proton exchange membrane fuel cell ageing forecasting using an echo state network. <i>Mathematics and Computers in Simulation</i> , 2017 , 131, 283-294	3.3	34
194	Decision process to manage useful life of multi-stacks fuel cell systems under service constraint. <i>Renewable Energy</i> , 2017 , 105, 590-600	8.1	24
193	Efficient startUp energy management via nonlinear control for ecofraction systems. <i>Applied Energy</i> , 2017 , 187, 899-909	10.7	13
192	Brain-inspired computational paradigm dedicated to fault diagnosis of PEM fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5410-5425	6.7	24
191	Battery Aging Study Using Field Use Data 2017 ,		1
190	A Review of Multi-Stack PEM Fuel Cell Systems: Advantages, Challenges and On-Going Applications in the Industrial Market 2017 ,		2
189	Reservoir Computing Optimisation for PEM Fuel Cell Fault Diagnostic 2017 ,		5
188	A Non-Intrusive Signal-Based Method for a Proton Exchange Membrane Fuel Cell Fault Diagnosis. <i>Fuel Cells</i> , 2017 , 17, 238-246	2.9	10

187	Proton exchange membrane fuel cell ageing forecasting algorithm based on Echo State Network. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1472-1480	6.7	67
186	Long-term tests duration reduction for PEMFC ECHP application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1527-1533	6.7	20
185	Dynamic modeling and experimental analysis of PEMFCs: A comparative study. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1544-1557	6.7	43
184	High Efficiency DC/AC/DC Converter Based on Synchronous Rectifier for Proton Exchange Membrane Fuel Cells. <i>Fuel Cells</i> , 2017 , 17, 178-186	2.9	2
183	On the sizing and energy management of an hybrid multistack fuel cell Battery system for automotive applications. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1518-1526	6.7	55
182	Signal Processing-Based Switch Fault Detection Methods for Multi-Phase Interleaved Boost Converter 2017 ,		1
181	Accelerated Stress Tests Oriented Load Profile for PEM Fuel Cells Durability in Automotive Applications 2017 ,		1
180	Operating Conditions Control for Extending Proton Exchange Membrane Fuel Cell Lifetime 2017 ,		1
179	Data-Driven Multi-Fault Approach for H ₂ /O ₂ PEM Fuel Cell Diagnosis 2017 ,		2
178	Solid oxide fuel cell fault diagnosis and ageing estimation based on wavelet transform approach. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13678-13687	6.7	22
177	PEM fuel cell prognostics under variable load: A data-driven ensemble with new incremental learning 2016 ,		10
176	Prognostics of Proton Exchange Membrane Fuel Cells stack using an ensemble of constraints based connectionist networks. <i>Journal of Power Sources</i> , 2016 , 324, 745-757	8.9	68
175	Extended Kalman Filter for prognostic of Proton Exchange Membrane Fuel Cell. <i>Applied Energy</i> , 2016 , 164, 220-227	10.7	143
174	Joint Particle Filters Prognostics for Proton Exchange Membrane Fuel Cell Power Prediction at Constant Current Solicitation. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 336-349	4.6	56
173	Particle filter-based prognostics: Review, discussion and perspectives. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 2-31	7.8	149
172	Nonlinear autoregressive neural network in an energy management strategy for battery/ultra-capacitor hybrid electrical vehicles. <i>Electric Power Systems Research</i> , 2016 , 136, 262-269	3.5	81
171	Online implementation of SVM based fault diagnosis strategy for PEMFC systems. <i>Applied Energy</i> , 2016 , 164, 284-293	10.7	58
170	Remaining Useful Life Prediction and Uncertainty Quantification of Proton Exchange Membrane Fuel Cell Under Variable Load. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2569-2577	8.9	81

169	A signal-based method for fast PEMFC diagnosis. <i>Applied Energy</i> , 2016 , 165, 748-758	10.7	50
168	Reverse engineering of a railcar prototype via energetic macroscopic representation approach. <i>Energy Conversion and Management</i> , 2016 , 112, 61-80	10.6	10
167	Integration of electrochemical impedance spectroscopy functionality in proton exchange membrane fuel cell power converter. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5378-5388	6.7	21
166	Degradations analysis and aging modeling for health assessment and prognostics of PEMFC. <i>Reliability Engineering and System Safety</i> , 2016 , 148, 78-95	6.3	125
165	Degraded mode operation of multi-stack fuel cell systems. <i>IET Electrical Systems in Transportation</i> , 2016 , 6, 3-11	2.1	21
164	Remaining Useful Life Estimation for PEMFC in Dynamic Operating Conditions 2016 ,		11
163	Switch short-circuit fault detection algorithm based on drain-to-source voltage monitoring for a fault tolerant DC/DC converter 2016 ,		6
162	Combined predictions for prognostics and predictive control of transportation PEMFC. <i>IFAC-PapersOnLine</i> , 2016 , 49, 244-249	0.7	6
161	Fuel cell remaining useful life prediction and uncertainty quantification under an automotive profile 2016 ,		7
160	6-Phase Soft-Switching Interleaved Boost Converter Based on SiC Semiconductor for Fuel Cell Vehicles 2016 ,		1
159	Fuel Cells Fault Diagnosis under Dynamic Load Profile Using Reservoir Computing 2016 ,		7
158	Estimating the end-of-life of PEM fuel cells: Guidelines and metrics. <i>Applied Energy</i> , 2016 , 177, 87-97	10.7	85
157	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 1-1	8.9	34
156	Diagnostic & health management of fuel cell systems: Issues and solutions. <i>Annual Reviews in Control</i> , 2016 , 42, 201-211	10.3	27
155	Nonlinear predictive control for durability enhancement and efficiency improvement in a fuel cell power system. <i>Journal of Power Sources</i> , 2016 , 328, 250-261	8.9	31
154	2016 ,		3
153	Accelerated stress test procedures for PEM fuel cells under actual load constraints: State-of-art and proposals. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12489-12505	6.7	50
152	Fault Tolerant Control Strategy applied to PEMFC water management. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10636-10646	6.7	39

151	Fault detection and isolation for Polymer Electrolyte Membrane Fuel Cell systems by analyzing cell voltage generated space. <i>Applied Energy</i> , 2015 , 148, 260-272	10.7	44
150	Improving accuracy of long-term prognostics of PEMFC stack to estimate remaining useful life 2015 ,		20
149	A review on DC/DC converter architectures for power fuel cell applications. <i>Energy Conversion and Management</i> , 2015 , 105, 716-730	10.6	106
148	Selection of mother wavelet and decomposition level for energy management in electrical vehicles including a fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 15823-15833	6.7	25
147	Polymer electrolyte membrane fuel cell fault diagnosis based on empirical mode decomposition. <i>Journal of Power Sources</i> , 2015 , 299, 596-603	8.9	39
146	Semi-plenary talk Diagnostic & health management of fuel cell systems in state of the art. <i>IFAC-PapersOnLine</i> , 2015 , 48, 177-178	0.7	
145	Prognostics of PEM fuel cells under a combined heat and power profile. <i>IFAC-PapersOnLine</i> , 2015 , 48, 26-31	0.7	15
144	Signal-Based Diagnostics by Wavelet Transform for Proton Exchange Membrane Fuel Cell. <i>Energy Procedia</i> , 2015 , 74, 1508-1516	2.3	18
143	Proton exchange membrane fuel cell behavioral model suitable for prognostics. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 8384-8397	6.7	59
142	Comparison of the Series and Parallel Architectures for Hybrid Multi-Stack Fuel Cell - Battery Systems 2015 ,		6
141	Fuel cells remaining useful life estimation using an extended Kalman Filter 2015 ,		8
140	Parametric sensitivity analysis of a PEMFC physics-based model developed for prognostics 2015 ,		2
139	Diagnosis for PEMFC Systems: A Data-Driven Approach With the Capabilities of Online Adaptation and Novel Fault Detection. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5164-5174	8.9	45
138	Part-load control strategy of a 20kW SiC power converter for embedded PEMFC multi-stack architectures 2015 ,		4
137	A Review on Graphical Methods for Modeling a Proton Exchange Membrane Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2015 , 12,		1
136	PEMFC aging modeling for prognostics and health assessment ? ?The authors would like to thank the ANR project PROPICE (ANR-12-PRGE-0001) and the Labex ACTION project (contract ANR-11-LABX-01-01) both funded by the French National Research Agency for their support.. <i>IFAC-PapersOnLine</i> , 2015 , 48, 790-795	0.7	15
135	Reconfiguration solution for shaded PV panels using switching control. <i>Renewable Energy</i> , 2015 , 82, 4-13.1	13.1	58
134	Fuzzy logic-based water heating control methodology for the efficiency enhancement of hybrid PV/BEM electrolyser systems. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2149-2161	6.7	19

133	Data-driven diagnosis of PEM fuel cell: A comparative study. <i>Control Engineering Practice</i> , 2014 , 28, 1-12	3.9	47
132	Prognostics of PEM fuel cell in a particle filtering framework. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 481-494	6.7	153
131	A double-fuzzy diagnostic methodology dedicated to online fault diagnosis of proton exchange membrane fuel cell stacks. <i>Journal of Power Sources</i> , 2014 , 271, 570-581	8.9	66
130	Fault diagnosis and novel fault type detection for PEMFC system based on spherical-shaped multiple-class support vector machine 2014 ,		3
129	A review of multi-stack and modular fuel cell systems: Interests, application areas and on-going research activities. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12101-12111	6.7	89
128	Diagnosis of PEMFC by using data-driven parity space strategy 2014 ,		1
127	Diagnostic tools for PEMFCs: from conception to implementation. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10613-10626	6.7	39
126	Proton exchange membrane fuel cell degradation prediction based on Adaptive Neuro-Fuzzy Inference Systems. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11128-11144	6.7	155
125	Energetic Macroscopic Representation and Optimal Fuzzy Logic Energy Management Strategy of a Hybrid Electric Locomotive with experimental characterization of Nickel-Cadmium battery cells. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2014 , 24, 56-67	0.4	1
124	Proton Exchange Membrane Fuel Cell Operation and Degradation in Short-Circuit. <i>Fuel Cells</i> , 2014 , 14, 894-905	2.9	22
123	Prognostics of Proton Exchange Membrane Fuel Cell stack in a particle filtering framework including characterization disturbances and voltage recovery 2014 ,		15
122	Static and Dynamic Modeling of a PEMFC for Prognostics Purpose 2014 ,		7
121	Online Diagnosis of PEMFC by Combining Support Vector Machine and Fluidic Model. <i>Fuel Cells</i> , 2014 , 14, 448-456	2.9	14
120	Degraded Mode Operation of Multi-Stack Fuel Cell Systems 2014 ,		4
119	A review on non-model based diagnosis methodologies for PEM fuel cell stacks and systems. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8914-8926	6.7	127
118	Prognostics and Health Management of PEMFC State of the art and remaining challenges. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15307-15317	6.7	123
117	A review on model-based diagnosis methodologies for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7077-7091	6.7	193
116	Modeling and Parameter Identification of Ultracapacitors for Hybrid Electrical Vehicles 2013 ,		5

115	An analysis of fluidic voltage statistical correlation for a diagnosis of PEM fuel cell flooding. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4689-4696	6.7	35
114	Experimental validation of a type-2 fuzzy logic controller for energy management in hybrid electrical vehicles. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1772-1779	7.2	37
113	Energetic macroscopic representation of a hybrid electric locomotive and experimental characterization of Nickel-Cadmium battery cells 2013 ,		5
112	Diagnosis of a commercial PEM fuel cell stack via incomplete spectra and fuzzy clustering 2013 ,		5
111	Inversion-Based Control of a Highly Redundant Military HEV. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 500-510	6.8	14
110	Fuel Cells: System Operation 2013 , 153-171		
109	2013 ,		5
108	2013 ,		10
107	A survey-based type-2 fuzzy logic system for energy management in hybrid electrical vehicles. <i>Information Sciences</i> , 2012 , 190, 192-207	7.7	46
106	A macroscopic PEM fuel cell model including water phenomena for vehicle simulation. <i>Renewable Energy</i> , 2012 , 46, 81-91	8.1	29
105	Estimation of the lead-acid battery initial state of charge with experimental validation 2012 ,		4
104	Fault Diagnosis of PEM Fuel Cell. <i>Green Energy and Technology</i> , 2012 , 151-183	0.6	2
103	Application of Fault Tree Analysis to Fuel Cell diagnosis. <i>Fuel Cells</i> , 2012 , 12, 302-309	2.9	50
102	Experimental Test Plan and Data Analysis Based on the Design of Experiment Methodology 2012 ,		2
101	Design and sizing of a stand-alone recharging point for battery electrical vehicles using photovoltaic energy 2011 ,		11
100	EMR modelling of a hydrogen-based electrical energy storage. <i>EPJ Applied Physics</i> , 2011 , 54, 23404	1.1	7
99	On-line energy management for HEV based on particle swarm optimization. <i>EPJ Applied Physics</i> , 2011 , 54, 23403	1.1	2
98	A New High Voltage Impedance Spectrometer for the Diagnostics of Fuel Cell Stacks. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		3

97	Guest Editorial Special Section on Advanced Transportation Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 4102-4105	6.8	4
96	. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 4139-4152	6.8	79
95	Development of new test instruments and protocols for the diagnostic of fuel cell stacks. <i>Journal of Power Sources</i> , 2011 , 196, 5325-5333	8.9	48
94	Sizing of a hybrid locomotive 2011 ,		4
93	Energetic Macroscopic Representation of a hybrid railway powertrain 2011 ,		7
92	Non intrusive diagnosis of polymer electrolyte fuel cells by wavelet packet transform. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 740-746	6.7	74
91	Fuel cells static and dynamic characterizations as tools for the estimation of their ageing time. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1730-1739	6.7	47
90	Multiphysics simulation of a PEM electrolyser: Energetic Macroscopic Representation approach. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1382-1398	6.7	56
89	Diagnosis of polymer electrolyte fuel cells failure modes (flooding & drying out) by neural networks modeling. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3067-3075	6.7	110
88	A Review on solid oxide fuel cell models. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7212-7228	6.7	143
87	Electrical equivalent model of a proton exchange membrane fuel cell with experimental validation. <i>Renewable Energy</i> , 2011 , 36, 2582-2588	8.1	26
86	Ripple Current Effects on PEMFC Aging Test by Experimental and Modeling. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		38
85	Oxygen Starvation Effects on PEMFC Durability 2010 ,		1
84	2010 ,		7
83	Performance parametric analysis of a PEMFC model 2010 ,		2
82	Causal Fuel Cell System Model Suitable for Transportation Simulation Applications. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		14
81	Distribution Study of Species and Current Density During Oxygen Starvation. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		3
80	Modeling and Fault Diagnosis of a Polymer Electrolyte Fuel Cell Using Electrical Equivalent Analysis. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 148-160	5.4	48

79	Static and dynamic modeling of a diesel fed fuel cell power supply. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1377-1389	6.7	11
78	From Modeling to Control of a PEM Fuel Cell Using Energetic Macroscopic Representation. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1882-1891	8.9	44
77	Experimental Validation of a PEM Fuel-Cell Reduced-Order Model and a Moto-Compressor Higher Order Sliding-Mode Control. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1906-1913	8.9	103
76	Practical Control Structure of a heavy duty hybrid electric vehicle 2010 ,		2
75	Diagnosis of a fuel cell stack using electrochemical impedance spectroscopy and Bayesian Networks 2010 ,		13
74	Fuel cell system integration into a heavy-duty hybrid vehicle: preliminary experimental results 2010 ,		4
73	Energy management of a fuel cell system: Influence of the air supply control on the water issues 2010 ,		4
72	Energetic Macroscopic Representation of a Solid Oxide Fuel Cell for Stirling Engine combined cycle in high-efficient powertrains 2010 ,		1
71	Ripple Current Effects on PEMFC Ageing Test by Experimental and Modeling 2010 ,		3
70	Simulation Model of a Military HEV With a Highly Redundant Architecture. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2654-2663	6.8	28
69	Renewable Energy Operation and Conversion Schemes: A Summary of Discussions During the Seminar on Renewable Energy Systems. <i>IEEE Industrial Electronics Magazine</i> , 2010 , 4, 38-51	6.2	84
68	PEM fuel cell model suitable for energy optimization purposes. <i>Energy Conversion and Management</i> , 2010 , 51, 320-328	10.6	28
67	Study of temperature, air dew point temperature and reactant flow effects on proton exchange membrane fuel cell performances using electrochemical spectroscopy and voltammetry techniques. <i>Journal of Power Sources</i> , 2010 , 195, 984-993	8.9	43
66	Three order state space modeling of proton exchange membrane fuel cell with energy function definition. <i>Journal of Power Sources</i> , 2010 , 195, 6645-6651	8.9	14
65	Model-based diagnosis for proton exchange membrane fuel cells. <i>Mathematics and Computers in Simulation</i> , 2010 , 81, 158-170	3.3	31
64	Identification of failed cells inside PEMFC stacks in two cases: Anode/cathode crossover and anode/cooling compartment leak. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2772-2776	6.7	32
63	On-line fuzzy energy management for hybrid fuel cell systems. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2134-2143	6.7	90
62	Estimation of fuel cell operating time for predictive maintenance strategies. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8022-8029	6.7	32

61	MPPT of a PEMFC based on air supply control of the motocompressor group. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12521-12530	6.7	61
60	Oxygen starvation analysis during air feeding faults in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12295-12307	6.7	77
59	Inversion-Based Control of a Proton Exchange Membrane Fuel Cell System Using Energetic Macroscopic Representation. <i>Journal of Fuel Cell Science and Technology</i> , 2009 , 6,		5
58	. <i>IEEE Vehicular Technology Magazine</i> , 2009 , 4, 80-89	9.9	52
57	Static and dynamic modeling of a diesel fuel processing unit for polymer electrolyte fuel cell supply. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 1324-1335	6.7	13
56	A review on polymer electrolyte membrane fuel cell catalyst degradation and starvation issues: Causes, consequences and diagnostic for mitigation. <i>Journal of Power Sources</i> , 2009 , 194, 130-145	8.9	293
55	Estimation of Fuel Cell Life Time Using Latent Variables in Regression Context 2009 ,		4
54	2009 ,		11
53	Fuel cell system integration on a heavy-duty vehicle and development of a control strategy with real time simulation 2009 ,		2
52	2009 ,		2
51	Energetic macroscopic representation of a multiple architecture heavy duty hybrid vehicle 2009 ,		7
50	Energy based modeling of a 6-wheel drive hybrid heavy truck 2009 ,		3
49	Genetic Algorithm Fuzzy Logic Energy Management Strategy for Fuel Cell Hybrid Vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 137-142		3
48	Fuel cell operation under degraded working modes and study of diode by-pass circuit dedicated to multi-stack association. <i>Energy Conversion and Management</i> , 2008 , 49, 880-895	10.6	33
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