

# Daniel Hissel

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7495373/daniel-hissel-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2009</b> , 194, 130-145	8.9	293
239	A review on PEM voltage degradation associated with water management: Impacts, influent factors and characterization. <i>Journal of Power Sources</i> , <b>2008</b> , 183, 260-274	8.9	251
238	A review on model-based diagnosis methodologies for PEMFCs. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 7077-7091	6.7	193
237	Proton exchange membrane fuel cell degradation prediction based on Adaptive Neuro-Fuzzy Inference Systems. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11128-11144	6.7	155
236	Prognostics of PEM fuel cell in a particle filtering framework. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 481-494	6.7	153
235	Particle filter-based prognostics: Review, discussion and perspectives. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 72-73, 2-31	7.8	149
234	Extended Kalman Filter for prognostic of Proton Exchange Membrane Fuel Cell. <i>Applied Energy</i> , <b>2016</b> , 164, 220-227	10.7	143
233	A Review on solid oxide fuel cell models. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7212-7228	6.7	143
232	A review on non-model based diagnosis methodologies for PEM fuel cell stacks and systems. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 8914-8926	6.7	127
231	Degradations analysis and aging modeling for health assessment and prognostics of PEMFC. <i>Reliability Engineering and System Safety</i> , <b>2016</b> , 148, 78-95	6.3	125
230	Prognostics and Health Management of PEMFC [State of the art and remaining challenges. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15307-15317	6.7	123
229	Hydrogen energy systems: A critical review of technologies, applications, trends and challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 146, 111180	16.2	120
228	Diagnosis of polymer electrolyte fuel cells failure modes (flooding & drying out) by neural networks modeling. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3067-3075	6.7	110
227	A review on DC/DC converter architectures for power fuel cell applications. <i>Energy Conversion and Management</i> , <b>2015</b> , 105, 716-730	10.6	106
226	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> , <b>2010</b> , 57, 1906-1913	8.9	103
225	On-line fuzzy energy management for hybrid fuel cell systems. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2134-2143	6.7	90
224	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> , <b>2014</b> , 39, 12101-12111	6.7	89

223	Estimating the end-of-life of PEM fuel cells: Guidelines and metrics. <i>Applied Energy</i> , <b>2016</b> , 177, 87-97	10.7	85
222	Renewable Energy Operation and Conversion Schemes: A Summary of Discussions During the Seminar on Renewable Energy Systems. <i>IEEE Industrial Electronics Magazine</i> , <b>2010</b> , 4, 38-51	6.2	84
221	Nonlinear autoregressive neural network in an energy management strategy for battery/ultra-capacitor hybrid electrical vehicles. <i>Electric Power Systems Research</i> , <b>2016</b> , 136, 262-269	3.5	81
220	Remaining Useful Life Prediction and Uncertainty Quantification of Proton Exchange Membrane Fuel Cell Under Variable Load. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 2569-2577	8.9	81
219	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 4139-4152	6.8	79
218	Oxygen starvation analysis during air feeding faults in PEMFC. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12295-12307	6.7	77
217	Non intrusive diagnosis of polymer electrolyte fuel cells by wavelet packet transform. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 740-746	6.7	74
216	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 437-447	8.9	72
215	On-board fuel cell power supply modeling on the basis of neural network methodology. <i>Journal of Power Sources</i> , <b>2003</b> , 124, 479-486	8.9	71
214	Comparison between two PEM fuel cell durability tests performed at constant current and under solicitations linked to transport mission profile. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4523-4536	6.7	69
213	Prognostics of Proton Exchange Membrane Fuel Cells stack using an ensemble of constraints based connectionist networks. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 745-757	8.9	68
212	Energy-Management Strategy for Embedded Fuel-Cell Systems Using Fuzzy Logic. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 595-603	8.9	68
211	Proton exchange membrane fuel cell ageing forecasting algorithm based on Echo State Network. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 1472-1480	6.7	67
210	A double-fuzzy diagnostic methodology dedicated to online fault diagnosis of proton exchange membrane fuel cell stacks. <i>Journal of Power Sources</i> , <b>2014</b> , 271, 570-581	8.9	66
209	Diagnosis of automotive fuel cell power generators. <i>Journal of Power Sources</i> , <b>2004</b> , 128, 239-246	8.9	65
208	A review of DC/DC converter-based electrochemical impedance spectroscopy for fuel cell electric vehicles. <i>Renewable Energy</i> , <b>2019</b> , 141, 124-138	8.1	61
207	MPPT of a PEMFC based on air supply control of the motocompressor group. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12521-12530	6.7	61
206	Proton exchange membrane fuel cell behavioral model suitable for prognostics. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 8384-8397	6.7	59

205	Online implementation of SVM based fault diagnosis strategy for PEMFC systems. <i>Applied Energy</i> , <b>2016</b> , 164, 284-293	10.7	58
204	Reconfiguration solution for shaded PV panels using switching control. <i>Renewable Energy</i> , <b>2015</b> , 82, 4-13	13.1	58
203	Remaining useful life estimation for proton exchange membrane fuel cells using a hybrid method. <i>Applied Energy</i> , <b>2019</b> , 237, 910-919	10.7	57
202	Joint Particle Filters Prognostics for Proton Exchange Membrane Fuel Cell Power Prediction at Constant Current Solicitation. <i>IEEE Transactions on Reliability</i> , <b>2016</b> , 65, 336-349	4.6	56
201	Multiphysics simulation of a PEM electrolyser: Energetic Macroscopic Representation approach. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1382-1398	6.7	56
200	On the sizing and energy management of an hybrid multistack fuel cell Battery system for automotive applications. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 1518-1526	6.7	55
199	Characterisation and modelling of a 5 kW PEMFC for transportation applications. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1019-1030	6.7	53
198	Energy consumption reduction of a PEM fuel cell motor-compressor group thanks to efficient control laws. <i>Journal of Power Sources</i> , <b>2006</b> , 156, 57-63	8.9	53
197	. <i>IEEE Vehicular Technology Magazine</i> , <b>2009</b> , 4, 80-89	9.9	52
196	Diagnosis methods dedicated to the localisation of failed cells within PEMFC stacks. <i>Journal of Power Sources</i> , <b>2008</b> , 182, 449-461	8.9	51
195	Accelerated stress test procedures for PEM fuel cells under actual load constraints: State-of-art and proposals. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 12489-12505	6.7	50
194	A signal-based method for fast PEMFC diagnosis. <i>Applied Energy</i> , <b>2016</b> , 165, 748-758	10.7	50
193	Application of Fault Tree Analysis to Fuel Cell diagnosis. <i>Fuel Cells</i> , <b>2012</b> , 12, 302-309	2.9	50
192	Hydrogen storage technologies for stationary and mobile applications: Review, analysis and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111311	16.2	50
191	Prognostics methods and degradation indexes of proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 123, 109721	16.2	49
190	Development of new test instruments and protocols for the diagnostic of fuel cell stacks. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5325-5333	8.9	48
189	Modeling and Fault Diagnosis of a Polymer Electrolyte Fuel Cell Using Electrical Equivalent Analysis. <i>IEEE Transactions on Energy Conversion</i> , <b>2010</b> , 25, 148-160	5.4	48
188	Data-driven diagnosis of PEM fuel cell: A comparative study. <i>Control Engineering Practice</i> , <b>2014</b> , 28, 1-12	3.9	47

187	Fuel cells static and dynamic characterizations as tools for the estimation of their ageing time. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1730-1739	6.7	47
186	A survey-based type-2 fuzzy logic system for energy management in hybrid electrical vehicles. <i>Information Sciences</i> , <b>2012</b> , 190, 192-207	7.7	46
185	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> , <b>2015</b> , 62, 5164-5174	8.9	45
184	Fuzzy-Clustering Durability Diagnosis of Polymer Electrolyte Fuel Cells Dedicated to Transportation Applications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2007</b> , 56, 2414-2420	6.8	45
183	Fault detection and isolation for Polymer Electrolyte Membrane Fuel Cell systems by analyzing cell voltage generated space. <i>Applied Energy</i> , <b>2015</b> , 148, 260-272	10.7	44
182	From Modeling to Control of a PEM Fuel Cell Using Energetic Macroscopic Representation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 1882-1891	8.9	44
181	PEFC Stack Operating in Anodic Dead End Mode. <i>Fuel Cells</i> , <b>2004</b> , 4, 352-357	2.9	44
180	Dynamic modeling and experimental analysis of PEMFCs: A comparative study. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 1544-1557	6.7	43
179	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> , <b>2010</b> , 195, 984-993	8.9	43
178	Fuel cells multi-stack power architectures and experimental validation of 1kW parallel twin stack PEFC generator based on high frequency magnetic coupling dedicated to on board power unit. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 2367-2383	10.6	43
177	Fault Tolerant Control Strategy applied to PEMFC water management. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 10636-10646	6.7	39
176	Polymer electrolyte membrane fuel cell fault diagnosis based on empirical mode decomposition. <i>Journal of Power Sources</i> , <b>2015</b> , 299, 596-603	8.9	39
175	Diagnostic tools for PEMFCs: from conception to implementation. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10613-10626	6.7	39
174	Ripple Current Effects on PEMFC Aging Test by Experimental and Modeling. <i>Journal of Fuel Cell Science and Technology</i> , <b>2011</b> , 8,		38
173	Experimental validation of a type-2 fuzzy logic controller for energy management in hybrid electrical vehicles. <i>Engineering Applications of Artificial Intelligence</i> , <b>2013</b> , 26, 1772-1779	7.2	37
172	An analysis of fluidic voltage statistical correlation for a diagnosis of PEM fuel cell flooding. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 4689-4696	6.7	35
171	ANOVA method applied to proton exchange membrane fuel cell ageing forecasting using an echo state network. <i>Mathematics and Computers in Simulation</i> , <b>2017</b> , 131, 283-294	3.3	34
170	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 1-1	8.9	34

169	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> , <b>2008</b> , 49, 880-895	10.6	33
168	Power generation by fuel cells. <i>IEEE Industrial Electronics Magazine</i> , <b>2007</b> , 1, 28-37	6.2	33
167	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> , <b>2010</b> , 35, 2772-2776	6.7	32
166	Estimation of fuel cell operating time for predictive maintenance strategies. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8022-8029	6.7	32
165	Model-based diagnosis for proton exchange membrane fuel cells. <i>Mathematics and Computers in Simulation</i> , <b>2010</b> , 81, 158-170	3.3	31
164	Nonlinear predictive control for durability enhancement and efficiency improvement in a fuel cell power system. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 250-261	8.9	31
163	Degradation prediction of PEM fuel cell based on artificial intelligence. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 14953-14963	6.7	30
162	A macroscopic PEM fuel cell model including water phenomena for vehicle simulation. <i>Renewable Energy</i> , <b>2012</b> , 46, 81-91	8.1	29
161	Simulation Model of a Military HEV With a Highly Redundant Architecture. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 2654-2663	6.8	28
160	PEM fuel cell model suitable for energy optimization purposes. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 320-328	10.6	28
159	Diagnostic & health management of fuel cell systems: Issues and solutions. <i>Annual Reviews in Control</i> , <b>2016</b> , 42, 201-211	10.3	27
158	Energy management hypothesis for hybrid power system of H <sub>2</sub> /WT/PV/GMT via AI techniques. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 3527-3541	6.7	26
157	Electrical equivalent model of a proton exchange membrane fuel cell with experimental validation. <i>Renewable Energy</i> , <b>2011</b> , 36, 2582-2588	8.1	26
156	Analysis of a Fuel Cell Durability Test Based on Design of Experiment Approach. <i>IEEE Transactions on Energy Conversion</i> , <b>2008</b> , 23, 1093-1104	5.4	26
155	Fault diagnosis for fuel cell systems: A data-driven approach using high-precise voltage sensors. <i>Renewable Energy</i> , <b>2019</b> , 135, 1435-1444	8.1	26
154	Selection of mother wavelet and decomposition level for energy management in electrical vehicles including a fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 15823-15833	6.7	25
153	PEMFC Durability Test under Specific Dynamic Current Solicitation, Linked to a Vehicle Road Cycle. <i>Fuel Cells</i> , <b>2007</b> , 7, 142-152	2.9	25
152	Analysis of a PEMFC durability test under low humidity conditions and stack behaviour modelling using experimental design techniques. <i>Journal of Power Sources</i> , <b>2008</b> , 182, 429-440	8.9	25

151	Decision process to manage useful life of multi-stacks fuel cell systems under service constraint. <i>Renewable Energy</i> , <b>2017</b> , 105, 590-600	8.1	24
150	Brain-inspired computational paradigm dedicated to fault diagnosis of PEM fuel cell stack. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5410-5425	6.7	24
149	Anode purge management for hydrogen utilization and stack durability improvement of PEM fuel cell systems. <i>Applied Energy</i> , <b>2020</b> , 275, 115110	10.7	24
148	<b>2008</b> ,		24
147	Solid oxide fuel cell fault diagnosis and ageing estimation based on wavelet transform approach. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 13678-13687	6.7	22
146	Proton Exchange Membrane Fuel Cell Operation and Degradation in Short-Circuit. <i>Fuel Cells</i> , <b>2014</b> , 14, 894-905	2.9	22
145	Short-Term Prognostics of PEM Fuel Cells: A Comparative and Improvement Study. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 6077-6086	8.9	22
144	Optimal sizing of a wind, fuel cell, electrolyzer, battery and supercapacitor system for off-grid applications. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5512-5525	6.7	22
143	Integration of electrochemical impedance spectroscopy functionality in proton exchange membrane fuel cell power converter. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5378-5388	6.7	21
142	Degraded mode operation of multi-stack fuel cell systems. <i>IET Electrical Systems in Transportation</i> , <b>2016</b> , 6, 3-11	2.1	21
141	A Review of DC Microgrid Energy Management Systems Dedicated to Residential Applications. <i>Energies</i> , <b>2021</b> , 14, 4308	3.1	21
140	Improving accuracy of long-term prognostics of PEMFC stack to estimate remaining useful life <b>2015</b> ,		20
139	Long term durability test of open-cathode fuel cell system under actual operating conditions. <i>Energy Conversion and Management</i> , <b>2020</b> , 212, 112813	10.6	20
138	Long-term tests duration reduction for PEMFC ECHP application. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 1527-1533	6.7	20
137	Online electrochemical impedance spectroscopy detection integrated with step-up converter for fuel cell electric vehicle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1110-1121	6.7	20
136	Fuzzy logic-based water heating control methodology for the efficiency enhancement of hybrid PVBEM electrolyser systems. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2149-2161	6.7	19
135	Particle swarm optimization applied to the co-design of a fuel cell air circuit. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 121-131	8.9	19
134	Energetic Macroscopic Representation of a Marine Current Turbine System with Loss Minimization Control. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 106-117	8.2	18

133	Determination of the health state of fuel cell vehicle for a clean transportation. <i>Journal of Cleaner Production</i> , <b>2018</b> , 171, 1510-1519	10.3	18
132	Signal-Based Diagnostics by Wavelet Transform for Proton Exchange Membrane Fuel Cell. <i>Energy Procedia</i> , <b>2015</b> , 74, 1508-1516	2.3	18
131	. <i>IEEE Vehicular Technology Magazine</i> , <b>2018</b> , 13, 34-39	9.9	18
130	A multi-scale hybrid degradation index for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226916	8.9	15
129	Prognostics of PEM fuel cells under a combined heat and power profile. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 26-31	0.7	15
128	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> , <b>2015</b> , 48, 799-795	0.7	15
127	Prognostics of Proton Exchange Membrane Fuel Cell stack in a particle filtering framework including characterization disturbances and voltage recovery <b>2014</b> ,		15
126	Global modeling of different vehicles using Energetic Macroscopic Representation <b>2008</b> ,		15
125	Hybrid auxiliary power unit (APU) for automotive applications		15
124	Fault Diagnosis for PEMFC Systems in Consideration of Dynamic Behaviors and Spatial Inhomogeneity. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 3-11	5.4	15
123	Online Diagnosis of PEMFC by Combining Support Vector Machine and Fluidic Model. <i>Fuel Cells</i> , <b>2014</b> , 14, 448-456	2.9	14
122	Inversion-Based Control of a Highly Redundant Military HEV. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 500-510	6.8	14
121	Causal Fuel Cell System Model Suitable for Transportation Simulation Applications. <i>Journal of Fuel Cell Science and Technology</i> , <b>2010</b> , 7,		14
120	Three order state space modeling of proton exchange membrane fuel cell with energy function definition. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 6645-6651	8.9	14
119	Efficient startUp energy management via nonlinear control for ecotraction systems. <i>Applied Energy</i> , <b>2017</b> , 187, 899-909	10.7	13
118	Diagnosis of a fuel cell stack using electrochemical impedance spectroscopy and Bayesian Networks <b>2010</b> ,		13
117	Static and dynamic modeling of a diesel fuel processing unit for polymer electrolyte fuel cell supply. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1324-1335	6.7	13
116	Study of a PEFC power generator modular architecture based on a multi-stack association. <i>Journal of Power Sources</i> , <b>2006</b> , 156, 108-113	8.9	13



115	New design of a PEM fuel cell air automatic climate control unit. <i>Journal of Power Sources</i> , <b>2005</b> , 150, 78-85	8.9	13
114	Multi physics modelling and representation of power and energy sources for Hybrid Electric Vehicles <b>2008</b> ,		12
113	Fuel cell fault diagnosis: A stochastic approach <b>2006</b> ,		12
112	Polymer Electrolyte Membrane Fuel Cell Modelling and Parameters Estimation for Ageing Consideration <b>2007</b> ,		12
111	Energetic Macroscopic Representation of a Fuel Cell-Supercapacitor System <b>2007</b> ,		12
110	Design and sizing of a stand-alone recharging point for battery electrical vehicles using photovoltaic energy <b>2011</b> ,		11
109	Static and dynamic modeling of a diesel fed fuel cell power supply. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 1377-1389	6.7	11
108	<b>2009</b> ,		11
107	Remaining Useful Life Estimation for PEMFC in Dynamic Operating Conditions <b>2016</b> ,		11
106	Hybrid fuel cell system degradation modeling methods: A comprehensive review. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230071	8.9	11
105	PEM fuel cell prognostics under variable load: A data-driven ensemble with new incremental learning <b>2016</b> ,		10
104	Reverse engineering of a railcar prototype via energetic macroscopic representation approach. <i>Energy Conversion and Management</i> , <b>2016</b> , 112, 61-80	10.6	10
103	A Non-Intrusive Signal-Based Method for a Proton Exchange Membrane Fuel Cell Fault Diagnosis. <i>Fuel Cells</i> , <b>2017</b> , 17, 238-246	2.9	10
102	<b>2013</b> ,		10
101	Online diagnosis of PEM Fuel Cell <b>2008</b> ,		10
100	Non Linear State Space Modelling of a PEMFC. <i>Fuel Cells</i> , <b>2006</b> , 6, 38-46	2.9	10
99	A method to estimate battery SOH indicators based on vehicle operating data only. <i>Energy</i> , <b>2021</b> , 225, 120235	7.9	10
98	Model-based aging tolerant control with power loss prediction of Proton Exchange Membrane Fuel Cell. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 11242-11254	6.7	10

97	An Echo State Network for fuel cell lifetime prediction under a dynamic micro-cogeneration load profile. <i>Applied Energy</i> , <b>2021</b> , 283, 116297	10.7	10
96	Multi-Reservoir Echo State Network for Proton Exchange Membrane Fuel Cell Remaining Useful Life prediction <b>2018</b> ,		10
95	Multi Physics Model of a Nickel Based Battery Suitable for Hybrid Electric Vehicle Simulation. <i>Journal of Asian Electric Vehicles</i> , <b>2008</b> , 6, 1175-1179	0.3	9
94	Fuel cells remaining useful life estimation using an extended Kalman Filter <b>2015</b> ,		8
93	Représentation énergétique macroscopique d'une pile à combustible. <i>Revue Internationale De Génie Electrique</i> , <b>2008</b> , 10, 603-623		8
92	Static and Dynamic Modeling of a PEMFC for Prognostics Purpose <b>2014</b> ,		7
91	EMR modelling of a hydrogen-based electrical energy storage. <i>EPJ Applied Physics</i> , <b>2011</b> , 54, 23404	1.1	7
90	<b>2010</b> ,		7
89	Energetic Macroscopic Representation of a hybrid railway powertrain <b>2011</b> ,		7
88	Energetic macroscopic representation of a multiple architecture heavy duty hybrid vehicle <b>2009</b> ,		7
87	Design of a High Efficiency Fuel Cell dc/dc Converter Dedicated to Transportation Applications. <i>Journal of Fuel Cell Science and Technology</i> , <b>2008</b> , 5,		7
86	Fuel cell remaining useful life prediction and uncertainty quantification under an automotive profile <b>2016</b> ,		7
85	Fuel Cells Fault Diagnosis under Dynamic Load Profile Using Reservoir Computing <b>2016</b> ,		7
84	Modeling of a hybrid marine current-hydrogen active power generation system. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 9621-9635	6.7	7
83	Energy Management of a Hybrid Tidal Turbine-Hydrogen Micro-Grid: Losses Minimization Strategy. <i>Fuel Cells</i> , <b>2020</b> , 20, 342-350	2.9	6
82	Comparison of the Series and Parallel Architectures for Hybrid Multi-Stack Fuel Cell - Battery Systems <b>2015</b> ,		6
81	Macroscopic Modeling of a PEFC System Based on Equivalent Circuits of Fuel and Oxidant Supply. <i>Journal of Fuel Cell Science and Technology</i> , <b>2008</b> , 5,		6
80	Analysis of a Fuel Cell Durability Test Using the Response Surface Methodology <b>2006</b> ,		6

79	Switch short-circuit fault detection algorithm based on drain-to-source voltage monitoring for a fault tolerant DC/DC converter <b>2016</b> ,		6
78	Combined predictions for prognostics and predictive control of transportation PEMFC. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 244-249	0.7	6
77	IEEE VTS Motor Vehicles Challenge 2020 - Energy Management of a Fuel Cell/Ultracapacitor/Lead-Acid Battery Hybrid Electric Vehicle <b>2019</b> ,		6
76	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> , <b>2021</b> , 235, 236-247	1.4	6
75	Reservoir Computing Optimisation for PEM Fuel Cell Fault Diagnostic <b>2017</b> ,		5
74	Modeling and Parameter Identification of Ultracapacitors for Hybrid Electrical Vehicles <b>2013</b> ,		5
73	Energetic macroscopic representation of a hybrid electric locomotive and experimental characterization of Nickel-Cadmium battery cells <b>2013</b> ,		5
72	Diagnosis of a commercial PEM fuel cell stack via incomplete spectra and fuzzy clustering <b>2013</b> ,		5
71	<b>2013</b> ,		5
70	Inversion-Based Control of a Proton Exchange Membrane Fuel Cell System Using Energetic Macroscopic Representation. <i>Journal of Fuel Cell Science and Technology</i> , <b>2009</b> , 6,		5
69	Optimization and Economic Analysis of an Hybrid Fuel Cell, PhotoVoltaic and Battery Electric Power Generation System. <i>Journal of Fuel Cell Science and Technology</i> , <b>2006</b> , 3, 410-414		5
68	Fuel Cell System Modeling and Control with Energetic Macroscopic Representation <b>2007</b> ,		5
67	Dynamical recurrent neural network towards modeling of on-board fuel cell power supply <b>2004</b> ,		5
66	Part-load control strategy of a 20kW SiC power converter for embedded PEMFC multi-stack architectures <b>2015</b> ,		4
65	Degraded Mode Operation of Multi-Stack Fuel Cell Systems <b>2014</b> ,		4
64	Estimation of the lead-acid battery initial state of charge with experimental validation <b>2012</b> ,		4
63	Guest Editorial Special Section on Advanced Transportation Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 4102-4105	6.8	4
62	Fuel cell system integration into a heavy-duty hybrid vehicle: preliminary experimental results <b>2010</b> ,		4

61	Energy management of a fuel cell system: Influence of the air supply control on the water issues <b>2010,</b>		4
60	Sizing of a hybrid locomotive <b>2011,</b>		4
59	Estimation of Fuel Cell Life Time Using Latent Variables in Regression Context <b>2009,</b>		4
58	Study of Proton Exchange Membrane Fuel Cell safety procedures in case of emergency shutdown <b>2007,</b>		4
57	Dynamic behavior of a proton exchange membrane fuel cell under transportation cycle load <b>2004,</b>		4
56	Energy management strategy for embedded fuel cell system using fuzzy logic <b>2004,</b>		4
55	Impact of the temperature on calendar aging of an open cathode fuel cell stack. <i>Journal of Power Sources</i> , <b>2021</b> , 488, 229436	8.9	4
54	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> , <b>2021</b> , 212, 107369	6.3	4
53	Signal-based diagnostic approach to enhance fuel cell durability. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230223	8.9	4
52	Performance analysis of proton exchange membrane fuel cell in automotive applications. <i>Journal of Power Sources</i> , <b>2021</b> , 510, 230385	8.9	4
51	New magnetic field analyzer device dedicated for polymer electrolyte fuel cells noninvasive diagnostic. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 14071-14082	6.7	3
50	Fault diagnosis and novel fault type detection for PEMFC system based on spherical-shaped multiple-class support vector machine <b>2014,</b>		3
49	A New High Voltage Impedance Spectrometer for the Diagnostics of Fuel Cell Stacks. <i>Journal of Fuel Cell Science and Technology</i> , <b>2011</b> , 8,		3
48	Distribution Study of Species and Current Density During Oxygen Starvation. <i>Journal of Fuel Cell Science and Technology</i> , <b>2010</b> , 7,		3
47	Energy based modeling of a 6-wheel drive hybrid heavy truck <b>2009,</b>		3
46	Genetic Algorithm Fuzzy Logic Energy Management Strategy for Fuel Cell Hybrid Vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 137-142		3
45	Ripple Current Effects on PEMFC Ageing Test by Experimental and Modeling <b>2010,</b>		3
44	Dual Response Surface Approach for the Analysis of a Fuel Cell Durability Test. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , <b>2006,</b>		3

43	Prognostic methods for proton exchange membrane fuel cell under automotive load cycling: a review. <i>IET Electrical Systems in Transportation</i> , <b>2020</b> , 10, 369-375	2.1	3
42	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> , <b>2020</b> , 24, 3059-3071	2.6	3
41	Sensor development and optimization for a proton exchange membrane fuel cell system in automotive applications. <i>Journal of Power Sources</i> , <b>2021</b> , 487, 229415	8.9	3
40	Fault Diagnosis of PEMFC Systems in the Model Space Using Reservoir Computing <b>2018</b> ,		3
39	<b>2016</b> ,		3
38	A Review of Multi-Stack PEM Fuel Cell Systems: Advantages, Challenges and On-Going Applications in the Industrial Market <b>2017</b> ,		2
37	High Efficiency DC/AC/DC Converter Based on Synchronous Rectifier for Proton Exchange Membrane Fuel Cells. <i>Fuel Cells</i> , <b>2017</b> , 17, 178-186	2.9	2
36	Data-Driven Multi-Fault Approach for H <sub>2</sub> /O <sub>2</sub> PEM Fuel Cell Diagnosis <b>2017</b> ,		2
35	Parametric sensitivity analysis of a PEMFC physics-based model developed for prognostics <b>2015</b> ,		2
34	Fault Diagnosis of PEM Fuel Cell. <i>Green Energy and Technology</i> , <b>2012</b> , 151-183	0.6	2
33	On-line energy management for HEV based on particle swarm optimization. <i>EPJ Applied Physics</i> , <b>2011</b> , 54, 23403	1.1	2
32	Performance parametric analysis of a PEMFC model <b>2010</b> ,		2
31	Practical Control Structure of a heavy duty hybrid electric vehicle <b>2010</b> ,		2
30	Experimental Test Plan and Data Analysis Based on the Design of Experiment Methodology <b>2012</b> ,		2
29	Fuel cell system integration on a heavy-duty vehicle and development of a control strategy with real time simulation <b>2009</b> ,		2
28	<b>2009</b> ,		2
27	PEM fuel cell modeling with static-dynamic decomposition and voltage rebuilding <b>2008</b> ,		2
26	A comparison between CG and PSO algorithms for the design of a PM motor for fuel cell ancillaries <b>2008</b> ,		2

25	Dynamic Model of a Polymer Electrolyte Fuel Cell Power Device. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006,</i>		2
24	PEM fuel cell modelization including durability considerations <b>2005,</b>		2
23	Design of a Methodology to Evaluate the Impact of Demand-Side Management in the Planning of Isolated/Islanded Microgrids. <i>Energies, 2020, 13, 3459</i>	3.1	2
22	Effect of Load Cycling on the Performance of Fuel Cell Stacks <b>2019,</b>		2
21	On Maximizing the Steady-State Efficiency of a Multi-Stack Fuel Cell System <b>2018,</b>		2
20	Battery Aging Study Using Field Use Data <b>2017,</b>		1
19	Diagnosis of PEMFC by using data-driven parity space strategy <b>2014,</b>		1
18	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), 2014, 24, 56-67</i>	0.4	1
17	Signal Processing-Based Switch Fault Detection Methods for Multi-Phase Interleaved Boost Converter <b>2017,</b>		1
16	Accelerated Stress Tests Oriented Load Profile for PEM Fuel Cells Durability in Automotive Applications <b>2017,</b>		1
15	Operating Conditions Control for Extending Proton Exchange Membrane Fuel Cell Lifetime <b>2017,</b>		1
14	A Review on Graphical Methods for Modeling a Proton Exchange Membrane Fuel Cell. <i>Journal of Fuel Cell Science and Technology, 2015, 12,</i>		1
13	Oxygen Starvation Effects on PEMFC Durability <b>2010,</b>		1
12	Energetic Macroscopic Representation of a Solid Oxide Fuel Cell for Stirling Engine combined cycle in high-efficient powertrains <b>2010,</b>		1
11	Inversion based control of a diesel fed low temperature fuel cell system <b>2008,</b>		1
10	Simplified electrical model tuned for actual controlled PEMFC <b>2006,</b>		1
9	Combined Cooling and Power Management Strategy for a Standalone House Using Hydrogen and Solar Energy. <i>Hydrogen, 2021, 2, 207-224</i>	1.8	1
8	6-Phase Soft-Switching Interleaved Boost Converter Based on SiC Semiconductor for Fuel Cell Vehicles <b>2016,</b>		1

7	A Review of Model-Based Prognostic for Proton Exchange Membrane Fuel Cell under Automotive Load Cycling <b>2019</b> ,		1
6	Battery Modeling using Real Driving Cycle and Big-Bang Big-Crunch algorithm <b>2018</b> ,		1
5	Fuzzy logic controllers for electrotechnical devices - On-site tuning approach. <i>EPJ Applied Physics</i> , <b>2001</b> , 16, 195-208	1.1	0
4	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> , <b>2020</b> , 613-624	0.2	0
3	Semi-plenary talk Diagnostic & health management of fuel cell systems a state of the art. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 177-178	0.7	
2	Fuel Cells: System Operation <b>2013</b> , 153-171		
1	Data-Driven Multi-fault Diagnosis for H <sub>2</sub> /O <sub>2</sub> and H <sub>2</sub> /Air PEMFCs. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 3-12	0.2	