

Daniel Hissel

List of Publications by Year in descending order

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270
papers

11,078
citations

23500

58
h-index

37111

96
g-index

282
all docs

282
docs citations

282
times ranked

5009
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen energy systems: A critical review of technologies, applications, trends and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 146, 111180.	8.2	729
2	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.	4.0	344
3	Hydrogen storage technologies for stationary and mobile applications: Review, analysis and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111311.	8.2	322
4	A review on PEM voltage degradation associated with water management: Impacts, influent factors and characterization. <i>Journal of Power Sources</i> , 2008, 183, 260-274.	4.0	301
5	A review on model-based diagnosis methodologies for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7077-7091.	3.8	266
6	Particle filter-based prognostics: Review, discussion and perspectives. <i>Mechanical Systems and Signal Processing</i> , 2016, 72-73, 2-31.	4.4	230
7	Extended Kalman Filter for prognostic of Proton Exchange Membrane Fuel Cell. <i>Applied Energy</i> , 2016, 164, 220-227.	5.1	219
8	Prognostics of PEM fuel cell in a particle filtering framework. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 481-494.	3.8	215
9	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.	3.8	206
10	Degradations analysis and aging modeling for health assessment and prognostics of PEMFC. <i>Reliability Engineering and System Safety</i> , 2016, 148, 78-95.	5.1	204
11	A Review on solid oxide fuel cell models. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7212-7228.	3.8	183
12	Prognostics and Health Management of PEMFC "State of the art and remaining challenges. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15307-15317.	3.8	175
13	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.	3.8	172
14	A review on DC/DC converter architectures for power fuel cell applications. <i>Energy Conversion and Management</i> , 2015, 105, 716-730.	4.4	162
15	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.	3.8	161
16	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.	5.2	144
17	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.	3.8	144
18	On-line fuzzy energy management for hybrid fuel cell systems. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2134-2143.	3.8	134

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19	A review of DC/DC converter-based electrochemical impedance spectroscopy for fuel cell electric vehicles. <i>Renewable Energy</i> , 2019, 141, 124-138.	4.3	130
20	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.	5.2	126
21	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.	2.1	117
22	Estimating the end-of-life of PEM fuel cells: Guidelines and metrics. <i>Applied Energy</i> , 2016, 177, 87-97.	5.1	116
23	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.	2.3	113
24	Prognostics methods and degradation indexes of proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109721.	8.2	111
25	Remaining useful life estimation for proton exchange membrane fuel cells using a hybrid method. <i>Applied Energy</i> , 2019, 237, 910-919.	5.1	106
26	Proton exchange membrane fuel cell ageing forecasting algorithm based on Echo State Network. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1472-1480.	3.8	104
27	Oxygen starvation analysis during air feeding faults in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12295-12307.	3.8	97
28	Practical Control Structure and Energy Management of a Testbed Hybrid Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2011, 60, 4139-4152.	3.9	97
29	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.	4.0	97
30	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.	4.0	96
31	Online implementation of SVM based fault diagnosis strategy for PEMFC systems. <i>Applied Energy</i> , 2016, 164, 284-293.	5.1	90
32	A Review of DC Microgrid Energy Management Systems Dedicated to Residential Applications. <i>Energies</i> , 2021, 14, 4308.	1.6	90
33	On-board fuel cell power supply modeling on the basis of neural network methodology. <i>Journal of Power Sources</i> , 2003, 124, 479-486.	4.0	89
34	Proton exchange membrane fuel cell behavioral model suitable for prognostics. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8384-8397.	3.8	88
35	Non intrusive diagnosis of polymer electrolyte fuel cells by wavelet packet transform. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 740-746.	3.8	86
36	Energy-Management Strategy for Embedded Fuel-Cell Systems Using Fuzzy Logic. <i>IEEE Transactions on Industrial Electronics</i> , 2007, 54, 595-603.	5.2	85

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37	A New Modeling Approach of Embedded Fuel-Cell Power Generators Based on Artificial Neural Network. IEEE Transactions on Industrial Electronics, 2008, 55, 437-447.	5.2	83
38	On the sizing and energy management of an hybrid multistack fuel cell " Battery system for automotive applications. International Journal of Hydrogen Energy, 2017, 42, 1518-1526.	3.8	83
39	Reconfiguration solution for shaded PV panels using switching control. Renewable Energy, 2015, 82, 4-13.	4.3	79
40	Comparison between two PEM fuel cell durability tests performed at constant current and under solicitations linked to transport mission profile. International Journal of Hydrogen Energy, 2007, 32, 4523-4536.	3.8	78
41	Accelerated stress test procedures for PEM fuel cells under actual load constraints: State-of-art and proposals. International Journal of Hydrogen Energy, 2015, 40, 12489-12505.	3.8	77
42	Multiphysics simulation of a PEM electrolyser: Energetic Macroscopic Representation approach. International Journal of Hydrogen Energy, 2011, 36, 1382-1398.	3.8	76
43	Diagnosis of automotive fuel cell power generators. Journal of Power Sources, 2004, 128, 239-246.	4.0	74
44	Data-driven diagnosis of PEM fuel cell: A comparative study. Control Engineering Practice, 2014, 28, 1-12.	3.2	74
45	Joint Particle Filters Prognostics for Proton Exchange Membrane Fuel Cell Power Prediction at Constant Current Solicitation. IEEE Transactions on Reliability, 2016, 65, 336-349.	3.5	73
46	MPPT of a PEMFC based on air supply control of the motocompressor group. International Journal of Hydrogen Energy, 2010, 35, 12521-12530.	3.8	72
47	Dynamic modeling and experimental analysis of PEMFCs: A comparative study. International Journal of Hydrogen Energy, 2017, 42, 1544-1557.	3.8	69
48	Modeling and Fault Diagnosis of a Polymer Electrolyte Fuel Cell Using Electrical Equivalent Analysis. IEEE Transactions on Energy Conversion, 2010, 25, 148-160.	3.7	68
49	Degradation prediction of PEM fuel cell based on artificial intelligence. International Journal of Hydrogen Energy, 2020, 45, 14953-14963.	3.8	68
50	A signal-based method for fast PEMFC diagnosis. Applied Energy, 2016, 165, 748-758.	5.1	66
51	Fault Tolerant Control Strategy applied to PEMFC water management. International Journal of Hydrogen Energy, 2015, 40, 10636-10646.	3.8	65
52	Global modeling of different vehicles. IEEE Vehicular Technology Magazine, 2009, 4, 80-89.	2.8	64
53	Energy consumption reduction of a PEM fuel cell motor-compressor group thanks to efficient control laws. Journal of Power Sources, 2006, 156, 57-63.	4.0	63
54	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. Energy Conversion and Management, 2008, 49, 2367-2383.	4.4	63

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55	Development of new test instruments and protocols for the diagnostic of fuel cell stacks. Journal of Power Sources, 2011, 196, 5325-5333.	4.0	63
56	Application of Fault Tree Analysis to Fuel Cell diagnosis. Fuel Cells, 2012, 12, 302-309.	1.5	62
57	Diagnosis for PEMFC Systems: A Data-Driven Approach With the Capabilities of Online Adaptation and Novel Fault Detection. IEEE Transactions on Industrial Electronics, 2015, 62, 5164-5174.	5.2	62
58	Diagnosis methods dedicated to the localisation of failed cells within PEMFC stacks. Journal of Power Sources, 2008, 182, 449-461.	4.0	61
59	A survey-based type-2 fuzzy logic system for energy management in hybrid electrical vehicles. Information Sciences, 2012, 190, 192-207.	4.0	61
60	Fuel cells static and dynamic characterizations as tools for the estimation of their ageing time. International Journal of Hydrogen Energy, 2011, 36, 1730-1739.	3.8	60
61	A method to estimate battery SOH indicators based on vehicle operating data only. Energy, 2021, 225, 120235.	4.5	60
62	Anode purge management for hydrogen utilization and stack durability improvement of PEM fuel cell systems. Applied Energy, 2020, 275, 115110.	5.1	59
63	Characterisation and modelling of a 5kW PEMFC for transportation applications. International Journal of Hydrogen Energy, 2006, 31, 1019-1030.	3.8	57
64	Fuzzy-Clustering Durability Diagnosis of Polymer Electrolyte Fuel Cells Dedicated to Transportation Applications. IEEE Transactions on Vehicular Technology, 2007, 56, 2414-2420.	3.9	56
65	Optimal sizing of a wind, fuel cell, electrolyzer, battery and supercapacitor system for off-grid applications. International Journal of Hydrogen Energy, 2020, 45, 5512-5525.	3.8	56
66	From Modeling to Control of a PEM Fuel Cell Using Energetic Macroscopic Representation. IEEE Transactions on Industrial Electronics, 2010, 57, 1882-1891.	5.2	55
67	Polymer electrolyte membrane fuel cell fault diagnosis based on empirical mode decomposition. Journal of Power Sources, 2015, 299, 596-603.	4.0	55
68	ANOVA method applied to proton exchange membrane fuel cell ageing forecasting using an echo state network. Mathematics and Computers in Simulation, 2017, 131, 283-294.	2.4	54
69	Hybrid fuel cell system degradation modeling methods: A comprehensive review. Journal of Power Sources, 2021, 506, 230071.	4.0	54
70	Study of temperature, air dew point temperature and reactant flow effects on proton exchange membrane fuel cell performances using electrochemical spectroscopy and voltammetry techniques. Journal of Power Sources, 2010, 195, 984-993.	4.0	53
71	Diagnostic tools for PEMFCs: from conception to implementation. International Journal of Hydrogen Energy, 2014, 39, 10613-10626.	3.8	51
72	Decision process to manage useful life of multi-stacks fuel cell systems under service constraint. Renewable Energy, 2017, 105, 590-600.	4.3	51

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73	Ripple Current Effects on PEMFC Aging Test by Experimental and Modeling. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	50
74	Experimental validation of a type-2 fuzzy logic controller for energy management in hybrid electrical vehicles. Engineering Applications of Artificial Intelligence, 2013, 26, 1772-1779.	4.3	49
75	Fault detection and isolation for Polymer Electrolyte Membrane Fuel Cell systems by analyzing cell voltage generated space. Applied Energy, 2015, 148, 260-272.	5.1	49
76	PEFC Stack Operating in Anodic Dead End Mode. Fuel Cells, 2004, 4, 352-357.	1.5	46
77	An analysis of fluidic voltage statistical correlation for a diagnosis of PEM fuel cell flooding. International Journal of Hydrogen Energy, 2013, 38, 4689-4696.	3.8	46
78	Fuel cell operation under degraded working modes and study of diode by-pass circuit dedicated to multi-stack association. Energy Conversion and Management, 2008, 49, 880-895.	4.4	45
79	Short-Term Prognostics of PEM Fuel Cells: A Comparative and Improvement Study. IEEE Transactions on Industrial Electronics, 2019, 66, 6077-6086.	5.2	44
80	Wavelets-based approach for online Fuel Cells Remaining Useful lifetime Prediction. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	43
81	Diagnostic & health management of fuel cell systems: Issues and solutions. Annual Reviews in Control, 2016, 42, 201-211.	4.4	43
82	Fault diagnosis for fuel cell systems: A data-driven approach using high-precise voltage sensors. Renewable Energy, 2019, 135, 1435-1444.	4.3	43
83	Model-based diagnosis for proton exchange membrane fuel cells. Mathematics and Computers in Simulation, 2010, 81, 158-170.	2.4	41
84	Impact of power converter current ripple on the durability of a fuel cell stack. , 2008, , .		38
85	Identification of failed cells inside PEMFC stacks in two cases: Anode/cathode crossover and anode/cooling compartment leak. International Journal of Hydrogen Energy, 2010, 35, 2772-2776.	3.8	38
86	Nonlinear predictive control for durability enhancement and efficiency improvement in a fuel cell power system. Journal of Power Sources, 2016, 328, 250-261.	4.0	38
87	Power generation by fuel cells. IEEE Industrial Electronics Magazine, 2007, 1, 28-37.	2.3	37
88	Selection of mother wavelet and decomposition level for energy management in electrical vehicles including a fuel cell. International Journal of Hydrogen Energy, 2015, 40, 15823-15833.	3.8	37
89	Estimation of fuel cell operating time for predictive maintenance strategies. International Journal of Hydrogen Energy, 2010, 35, 8022-8029.	3.8	36
90	Energy management hypothesis for hybrid power system of H ₂ /WT/PV/GMT via AI techniques. International Journal of Hydrogen Energy, 2018, 43, 3527-3541.	3.8	36

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91	Long term durability test of open-cathode fuel cell system under actual operating conditions. Energy Conversion and Management, 2020, 212, 112813.	4.4	36
92	Simulation Model of a Military HEV With a Highly Redundant Architecture. IEEE Transactions on Vehicular Technology, 2010, 59, 2654-2663.	3.9	35
93	Online electrochemical impedance spectroscopy detection integrated with step-up converter for fuel cell electric vehicle. International Journal of Hydrogen Energy, 2019, 44, 1110-1121.	3.8	35
94	A macroscopic PEM fuel cell model including water phenomena for vehicle simulation. Renewable Energy, 2012, 46, 81-91.	4.3	34
95	Degraded mode operation of multi-stack fuel cell systems. IET Electrical Systems in Transportation, 2016, 6, 3-11.	1.5	34
96	Brain-inspired computational paradigm dedicated to fault diagnosis of PEM fuel cell stack. International Journal of Hydrogen Energy, 2017, 42, 5410-5425.	3.8	33
97	Electrical equivalent model of a proton exchange membrane fuel cell with experimental validation. Renewable Energy, 2011, 36, 2582-2588.	4.3	32
98	Integration of electrochemical impedance spectroscopy functionality in proton exchange membrane fuel cell power converter. International Journal of Hydrogen Energy, 2016, 41, 5378-5388.	3.8	32
99	PEM fuel cell model suitable for energy optimization purposes. Energy Conversion and Management, 2010, 51, 320-328.	4.4	31
100	Fuzzy logic-based water heating control methodology for the efficiency enhancement of hybrid PV&PEM electrolyser systems. International Journal of Hydrogen Energy, 2015, 40, 2149-2161.	3.8	31
101	Analysis of a PEMFC durability test under low humidity conditions and stack behaviour modelling using experimental design techniques. Journal of Power Sources, 2008, 182, 429-440.	4.0	30
102	Signal-Based Diagnostics by Wavelet Transform for Proton Exchange Membrane Fuel Cell. Energy Procedia, 2015, 74, 1508-1516.	1.8	30
103	PEMFC Durability Test under Specific Dynamic Current Solicitation, Linked to a Vehicle Road Cycle. Fuel Cells, 2007, 7, 142-152.	1.5	29
104	Analysis of a Fuel Cell Durability Test Based on Design of Experiment Approach. IEEE Transactions on Energy Conversion, 2008, 23, 1093-1104.	3.7	29
105	Proton Exchange Membrane Fuel Cell Operation and Degradation in Short-Circuit. Fuel Cells, 2014, 14, 894-905.	1.5	28
106	A multi-scale hybrid degradation index for proton exchange membrane fuel cells. Journal of Power Sources, 2019, 437, 226916.	4.0	28
107	Fault Diagnosis for PEMFC Systems in Consideration of Dynamic Behaviors and Spatial Inhomogeneity. IEEE Transactions on Energy Conversion, 2019, 34, 3-11.	3.7	28
108	Improving accuracy of long-term prognostics of PEMFC stack to estimate remaining useful life. , 2015, ,		27

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109	Solid oxide fuel cell fault diagnosis and ageing estimation based on wavelet transform approach. International Journal of Hydrogen Energy, 2016, 41, 13678-13687.	3.8	27
110	An Echo State Network for fuel cell lifetime prediction under a dynamic micro-cogeneration load profile. Applied Energy, 2021, 283, 116297.	5.1	27
111	Global modeling of different vehicles using Energetic Macroscopic Representation. , 2008, , .		25
112	Performance analysis of proton exchange membrane fuel cell in automotive applications. Journal of Power Sources, 2021, 510, 230385.	4.0	25
113	Determination of the health state of fuel cell vehicle for a clean transportation. Journal of Cleaner Production, 2018, 171, 1510-1519.	4.6	24
114	Diagnosis of a fuel cell stack using electrochemical impedance spectroscopy and Bayesian Networks. , 2010, , .		22
115	Online Diagnosis of PEMFC by Combining Support Vector Machine and Fluidic Model. Fuel Cells, 2014, 14, 448-456.	1.5	22
116	Model-based aging tolerant control with power loss prediction of Proton Exchange Membrane Fuel Cell. International Journal of Hydrogen Energy, 2020, 45, 11242-11254.	3.8	22
117	Hybrid auxiliary power unit (APU) for automotive applications. , 0, , .		21
118	Prognostics of Proton Exchange Membrane Fuel Cell stack in a particle filtering framework including characterization disturbances and voltage recovery. , 2014, , .		21
119	Long-term tests duration reduction for PEMFC $\hat{1}/4$ -CHP application. International Journal of Hydrogen Energy, 2017, 42, 1527-1533.	3.8	21
120	Energetic Macroscopic Representation of a Marine Current Turbine System with Loss Minimization Control. IEEE Transactions on Sustainable Energy, 2018, 9, 106-117.	5.9	21
121	Fail-Safe Power for Hybrid Electric Vehicles: Implementing a Self-Sustained Global Energy Management System. IEEE Vehicular Technology Magazine, 2018, 13, 34-39.	2.8	21
122	Particle swarm optimization applied to the co-design of a fuel cell air circuit. Journal of Power Sources, 2008, 179, 121-131.	4.0	20
123	Causal Fuel Cell System Model Suitable for Transportation Simulation Applications. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	19
124	PEMFC aging modeling for prognostics and health assessment â... âThe authors would like to thank the ANR project PROPICE (ANR-12-PRGE-0001) and the Labex ACTION project (contract âANR-11-LABX-01-01â) both funded by the French National Research Agency for their support.. IFAC-PapersOnLine, 2015, 48, 790-795.	0.5	19
125	Energetic Macroscopic Representation of a Fuel Cell-Supercapacitor System. , 2007, , .		18
126	Multi-Reservoir Echo State Network for Proton Exchange Membrane Fuel Cell Remaining Useful Life prediction. , 2018, , .		18

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127	Online diagnosis of PEM Fuel Cell. , 2008, , .		17
128	Static and dynamic modeling of a diesel fuel processing unit for polymer electrolyte fuel cell supply. International Journal of Hydrogen Energy, 2009, 34, 1324-1335.	3.8	17
129	Synthesis of degradation mechanisms and of their impacts on degradation rates on proton-exchange membrane fuel cells and lithium-ion nickelâ€“manganeseâ€“cobalt batteries in hybrid transport applications. Reliability Engineering and System Safety, 2021, 212, 107369.	5.1	17
130	Fuel cell fault diagnosis: A stochastic approach. , 2006, , .		16
131	Three order state space modeling of proton exchange membrane fuel cell with energy function definition. Journal of Power Sources, 2010, 195, 6645-6651.	4.0	16
132	Design and sizing of a stand-alone recharging point for battery electrical vehicles using photovoltaic energy. , 2011, , .		16
133	Inversion-Based Control of a Highly Redundant Military HEV. IEEE Transactions on Vehicular Technology, 2013, 62, 500-510.	3.9	16
134	Prognostics of PEM fuel cells under a combined heat and power profileÃ•. IFAC-PapersOnLine, 2015, 48, 26-31.	0.5	16
135	A Nonâ€“intrusive Signalâ€“Based Method for a Proton Exchange Membrane Fuel Cell Fault Diagnosis. Fuel Cells, 2017, 17, 238-246.	1.5	16
136	IEEE VTS Motor Vehicles Challenge 2020 - Energy Management of a Fuel Cell/Ultracapacitor/Lead-Acid Battery Hybrid Electric Vehicle. , 2019, , .		16
137	Static and dynamic modeling of a diesel fed fuel cell power supply. International Journal of Hydrogen Energy, 2010, 35, 1377-1389.	3.8	15
138	Comparison of the Series and Parallel Architectures for Hybrid Multi-Stack Fuel Cell - Battery Systems. , 2015, , .		15
139	Remaining Useful Life Estimation for PEMFC in Dynamic Operating Conditions. , 2016, , .		15
140	New design of a PEM fuel cell air automatic climate control unit. Journal of Power Sources, 2005, 150, 78-85.	4.0	14
141	Study of a PEFC power generator modular architecture based on a multi-stack association. Journal of Power Sources, 2006, 156, 108-113.	4.0	14
142	Multi physics modelling and representation of power and energy sources for Hybrid Electric Vehicles. , 2008, , .		14
143	Sensor development and optimization for a proton exchange membrane fuel cell system in automotive applications. Journal of Power Sources, 2021, 487, 229415.	4.0	14
144	Polymer Electrolyte Membrane Fuel Cell Modelling and Parameters Estimation for Ageing Consideration. , 2007, , .		13

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145	PEM fuel cell prognostics under variable load: A data-driven ensemble with new incremental learning. , 2016, , .		13
146	Reverse engineering of a railcar prototype via energetic macroscopic representation approach. Energy Conversion and Management, 2016, 112, 61-80.	4.4	13
147	Efficient start-up energy management via nonlinear control for eco-traction systems. Applied Energy, 2017, 187, 899-909.	5.1	13
148	Signal-based diagnostic approach to enhance fuel cell durability. Journal of Power Sources, 2021, 506, 230223.	4.0	13
149	Ripple Current Effects on PEMFC Ageing Test by Experimental and Modeling. , 2010, , .		12
150	Energy Management of a Hybrid Tidal Turbine-Hydrogen Micro-Grid: Losses Minimization Strategy. Fuel Cells, 2020, 20, 342-350.	1.5	12
151	Energy management strategy for embedded fuel cell system using fuzzy logic. , 2004, , .		11
152	Non Linear State Space Modelling of a PEMFC. Fuel Cells, 2006, 6, 38-46.	1.5	11
153	Fuel cell-based hybrid systems. , 2009, , .		11
154	Degraded Mode Operation of Multi-Stack Fuel Cell Systems. , 2014, , .		11
155	Modeling of a hybrid marine current-hydrogen active power generation system. International Journal of Hydrogen Energy, 2019, 44, 9621-9635.	3.8	11
156	New magnetic field analyzer device dedicated for polymer electrolyte fuel cells noninvasive diagnostic. International Journal of Hydrogen Energy, 2020, 45, 14071-14082.	3.8	11
157	Combined Cooling and Power Management Strategy for a Standalone House Using Hydrogen and Solar Energy. Hydrogen, 2021, 2, 207-224.	1.7	11
158	Macroscopic Modeling of a PEFC System Based on Equivalent Circuits of Fuel and Oxidant Supply. Journal of Fuel Cell Science and Technology, 2008, 5, .	0.8	10
159	Energetic macroscopic representation of a multiple architecture heavy duty hybrid vehicle. , 2009, , .		10
160	EMR modelling of a hydrogen-based electrical energy storage. EPJ Applied Physics, 2011, 54, 23404.	0.3	10
161	Diagnosis of a commercial PEM fuel cell stack via incomplete spectra and fuzzy clustering. , 2013, , .		10
162	Fuel cells remaining useful life estimation using an extended Kalman Filter. , 2015, , .		10

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163	Comparison of Multi-Stack Fuel Cell System Architectures for Residential Power Generation Applications Including Electrical Vehicle Charging. , 2015, , .		10
164	Switch short-circuit fault detection algorithm based on drain-to-source voltage monitoring for a fault tolerant DC/DC converter. , 2016, , .		10
165	Fuel Cells Fault Diagnosis under Dynamic Load Profile Using Reservoir Computing. , 2016, , .		10
166	Multi Physics Model of a Nickel Based Battery Suitable for Hybrid Electric Vehicle Simulation. Journal of Asian Electric Vehicles, 2008, 6, 1175-1179.	0.4	10
167	Design of a High Efficiency Fuel Cell dc/dc Converter Dedicated to Transportation Applications. Journal of Fuel Cell Science and Technology, 2008, 5, .	0.8	9
168	On-line energy management for HEV based on Particle Swarm Optimization. , 2010, , .		9
169	Impact of the temperature on calendar aging of an open cathode fuel cell stack. Journal of Power Sources, 2021, 488, 229436.	4.0	9
170	Représentation Énergétique macroscopique d'une pile à combustible. Revue Internationale De Génie Électrique, 2008, 10, 603-623.	0.0	9
171	Analysis of a Fuel Cell Durability Test Using the Response Surface Methodology. , 2006, , .		8
172	Modeling and Parameter Identification of Ultracapacitors for Hybrid Electrical Vehicles. , 2013, , .		8
173	Static and Dynamic Modeling of a PEMFC for Prognostics Purpose. , 2014, , .		8
174	Fuel cell remaining useful life prediction and uncertainty quantification under an automotive profile. , 2016, , .		8
175	Application of dynamic programming to optimal energy management of grid-independent hybrid railcars. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 236-247.	1.3	8
176	Optimization and Economic Analysis of an Hybrid Fuel Cell, PhotoVoltaic and Battery Electric Power Generation System. Journal of Fuel Cell Science and Technology, 2006, 3, 410-414.	0.8	7
177	Inversion-Based Control of a Proton Exchange Membrane Fuel Cell System Using Energetic Macroscopic Representation. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	7
178	Sizing of a hybrid locomotive. , 2011, , .		7
179	Energetic Macroscopic Representation of a hybrid railway powertrain. , 2011, , .		7
180	Energetic macroscopic representation of a hybrid electric locomotive and experimental characterization of Nickel-Cadmium battery cells. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
181	Combined predictions for prognostics and predictive control of transportation PEMFC**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 Re-search Agency for their support.. IFAC-PapersOnLine, 2016, 49, 244-249.	0.5	7
182	Reservoir Computing Optimisation for PEM Fuel Cell Fault Diagnostic. , 2017, , .		7
183	On Maximizing the Steady-State Efficiency of a Multi-Stack Fuel Cell System. , 2018, , .		7
184	Prognostic methods for proton exchange membrane fuel cell under automotive load cycling: a review. IET Electrical Systems in Transportation, 2020, 10, 369-375.	1.5	7
185	Dynamic behavior of a proton exchange membrane fuel cell under transportation cycle load. , 2004, , .		6
186	Study of Proton Exchange Membrane Fuel Cell safety procedures in case of emergency shutdown. , 2007, , .		6
187	Fuel Cell System Modeling and Control with Energetic Macroscopic Representation. , 2007, , .		6
188	Estimation of Fuel Cell Life Time Using Latent Variables in Regression Context. , 2009, , .		6
189	Energy management of a fuel cell system: Influence of the air supply control on the water issues. , 2010, , .		6
190	On-line energy management for HEV based on particle swarm optimization. EPJ Applied Physics, 2011, 54, 23403.	0.3	6
191	Online diagnosis of PEMFC by analyzing individual cell voltages. , 2013, , .		6
192	Electrochemical noise analysis of a PEM fuel cell stack under long-time operation: noise signature in the frequency domain. Journal of Solid State Electrochemistry, 2020, 24, 3059-3071.	1.2	6
193	Dynamical recurrent neural network towards modeling of on-board fuel cell power supply. , 2004, , .		5
194	Dynamic Model of a Polymer Electrolyte Fuel Cell Power Device. Industrial Electronics Society (IECON) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	5
195	Fuel cell system integration into a heavy-duty hybrid vehicle: preliminary experimental results. , 2010, , .		5
196	Guest Editorial Special Section on Advanced Transportation Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 4102-4105.	3.9	5
197	Estimation of the lead-acid battery initial state of charge with experimental validation. , 2012, , .		5
198	Part-load control strategy of a 20kW SiC power converter for embedded PEMFC multi-stack architectures. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
199	A Review of Multi-Stack PEM Fuel Cell Systems: Advantages, Challenges and On-Going Applications in the Industrial Market. , 2017, , .		5
200	Fault Diagnosis of PEMFC Systems in the Model Space Using Reservoir Computing. , 2018, , .		5
201	A Review of Model-Based Prognostic for Proton Exchange Membrane Fuel Cell under Automotive Load Cycling. , 2019, , .		5
202	Dual Response Surface Approach for the Analysis of a Fuel Cell Durability Test. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
203	Electrical motor design for hybrid heavy-duty electrical powertrain. , 2009, , .		4
204	Genetic Algorithm Fuzzy Logic Energy Management Strategy for Fuel Cell Hybrid Vehicle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 137-142.	0.4	4
205	Performance parametric analysis of a PEMFC model. , 2010, , .		4
206	Distribution Study of Species and Current Density During Oxygen Starvation. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	4
207	Fault diagnosis and novel fault type detection for PEMFC system based on spherical-shaped multiple-class support vector machine. , 2014, , .		4
208	Multiple-Fuel Cell Module Architecture Investigation: A Key to High Efficiency in Heavy-Duty Electric Transportation. IEEE Vehicular Technology Magazine, 2022, 17, 94-103.	2.8	4
209	Fuel Cells and their Applications in Belfort (France). Fuel Cells, 2006, 6, 3-3.	1.5	3
210	PEM fuel cell modeling with static-dynamic decomposition and voltage rebuilding. , 2008, , .		3
211	A reduced-order model and a higher-order sliding-mode control of the air supply system of a proton-exchange-membrane fuel cell with experimental validation. , 2009, , .		3
212	First results obtained with an impedance meter developed for the diagnosis of large Proton-Exchange-Membrane Fuel-Cell stacks. , 2009, , .		3
213	Energy based modeling of a 6-wheel drive hybrid heavy truck. , 2009, , .		3
214	Durability Test Results of a Polymer Electrolyte Membrane Fuel Cell Operated at Overnominal Temperature With Low Humidified Reactants. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	3
215	A New High Voltage Impedance Spectrometer for the Diagnostics of Fuel Cell Stacks. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	3
216	Parametric sensitivity analysis of a PEMFC physics-based model developed for prognostics. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
217	A Review on Graphical Methods for Modeling a Proton Exchange Membrane Fuel Cell. Journal of Fuel Cell Science and Technology, 2015, 12, .	0.8	3
218	6-Phase Soft-Switching Interleaved Boost Converter Based on SiC Semiconductor for Fuel Cell Vehicles. , 2016, , .		3
219	High Efficiency DC/AC/DC Converter Based on Synchronous Rectifier for Proton Exchange Membrane Fuel Cells. Fuel Cells, 2017, 17, 178-186.	1.5	3
220	Battery Aging Study Using Field Use Data. , 2017, , .		3
221	On the Design of a Hybrid Fuel Cell - Battery Genset for a Refrigerated Semi-Trailer Truck. , 2018, , .		3
222	Effect of Load Cycling on the Performance of Fuel Cell Stacks. , 2019, , .		3
223	Distribution Study of Species and Current Density During Oxygen Starvation. , 2009, , .		3
224	Vers une méthode de réglage expérimentale des commandes PID floues : application aux systèmes électromécaniques. EPJ Applied Physics, 1998, 3, 195-214.	0.3	2
225	PEM fuel cell modelization including durability considerations. , 2005, , .		2
226	A comparison between CG and PSO algorithms for the design of a PM motor for fuel cell ancillaries. , 2008, , .		2
227	Fuel cell system integration on a heavy-duty vehicle and development of a control strategy with real time simulation. , 2009, , .		2
228	Practical Control Structure of a heavy duty hybrid electric vehicle. , 2010, , .		2
229	Experimental Test Plan and Data Analysis Based on the Design of Experiment Methodology. , 2012, , .		2
230	Energy Management of an Hybrid Electric Vehicle in Degraded Operation. , 2014, , .		2
231	Diagnosis of PEMFC by using data-driven parity space strategy. , 2014, , .		2
232	Energetic Macroscopic Representation and Optimal Fuzzy Logic Energy Management Strategy of a Hybrid Electric Locomotive with experimental characterization of Nickel-Cadmium battery cells. EPE Journal (European Power Electronics and Drives Journal), 2014, 24, 56-67.	0.7	2
233	Accelerated Stress Tests Oriented Load Profile for PEM Fuel Cells Durability in Automotive Applications. , 2017, , .		2
234	Operating Conditions Control for Extending Proton Exchange Membrane Fuel Cell Lifetime. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
235	Data-Driven Multi-Fault Approach for H2/O2 PEM Fuel Cell Diagnosis. , 2017, , .		2
236	Design of a Methodology to Evaluate the Impact of Demand-Side Management in the Planning of Isolated/Islanded Microgrids. Energies, 2020, 13, 3459.	1.6	2
237	Characterizing Aging of Lithium-ion Batteries during Long-term Test Campaigns for Transport Applications. , 2021, , .		2
238	Sizing and Energy Management Strategy Impact on the Total Cost of Ownership in Fuel Cell Electric Vehicles. , 2020, , .		2
239	Fuzzy logic controllers for electrotechnical devices - On-site tuning approach. EPJ Applied Physics, 2001, 16, 195-208.	0.3	1
240	Modelling of a motor compressor group feeding a hydrogen fuel cell using recurrent neural networks. , 0, , .		1
241	Simplified electrical model tuned for actual controlled PEMFC. , 2006, , .		1
242	Inversion based control of a diesel fed low temperature fuel cell system. , 2008, , .		1
243	High frequency power converter for Fuel Cell stacks parallel association. , 2008, , .		1
244	Oxygen Starvation Effects on PEMFC Durability. , 2010, , .		1
245	Energetic Macroscopic Representation of a Solid Oxide Fuel Cell for Stirling Engine combined cycle in high-efficient powertrains. , 2010, , .		1
246	Energy management for a fuel cell hybrid electrical vehicle. , 2014, , .		1
247	Signal Processing-Based Switch Fault Detection Methods for Multi-Phase Interleaved Boost Converter. , 2017, , .		1
248	Six-Phase Soft-Switching Interleaved Boost Converter Based on SiC Semiconductor and Coupled Inductor for Fuel Cell Vehicles. , 2017, , .		1
249	Control of a Wind Energy Conversion System using the Energetic Macroscopic Representation. , 2018, , .		1
250	Battery Modeling using Real Driving Cycle and Big-Bang Big-Crunch algorithm. , 2018, , .		1
251	Hydrogen vector in the exploitation of a wind farm. , 2018, , .		1
252	Experimental Testing of a Hydrogen Genset Used in a Refrigerated Semi-Trailer Truck Application. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
253	Theoretical Comparison Analysis of Six-Phase Interleaved Boost Converter Based on SiC Semiconductor and Inverse Coupled Inductor for Fuel Cell Electric Vehicle. Lecture Notes in Electrical Engineering, 2020, , 613-624.	0.3	1
254	PEMFC state-of-health estimation using a model-based state Bayesian observer under an automotive load profile. , 2020, , .		1
255	Design and control of a fuel cell DC/DC. , 2007, , .		0
256	A New High Voltage Impedance Spectrometer for the Diagnostic of Fuel Cell Stacks. , 2010, , .		0
257	Macroscopic modeling and representation of a PEM fuel cell gas supply taking into account the water phenomena. , 2010, , .		0
258	Fault-operation modes of a highly redundant military HEV. , 2012, , .		0
259	Fuel Cells & Hydrogen: Which Place in the Context of Global Energy Challenges. Fuel Cells, 2014, 14, 342-342.	1.5	0
260	Semi-plenary talk Diagnostic & health management of fuel cell systems “ a state of the art. IFAC-PapersOnLine, 2015, 48, 177-178.	0.5	0
261	Co-Chair Welcome. , 2015, , .		0
262	Energetic Macroscopic Representation in Reverse Engineering Process: Railcar Hybridization. , 2016, , .		0
263	Further Ahead with Electrochemical Energy Technology. Fuel Cells, 2017, 17, 124-124.	1.5	0
264	VPPC 2017 Welcome from the General Chair. , 2017, , .		0
265	Fuel Cells and Hydrogen: Break-up into the Future. Fuel Cells, 2018, 18, 228-228.	1.5	0
266	Fuel Cells and Hydrogen: a Further Step Towards Deployment.. Fuel Cells, 2020, 20, 230-230.	1.5	0
267	Data-Driven Multi-fault Diagnosis for H2/O2 and H2/Air PEMFCs. Lecture Notes in Electrical Engineering, 2020, , 3-12.	0.3	0
268	Identification of essential sensors for a PEMFC system in automotive applications. , 2020, , .		0
269	Fault tolerant control of a Proton Exchange Membrane Fuel Cell based on a Modified Failure Mode and Effect Analysis. , 2020, , .		0
270	Study of lithium-ion battery ageing cycled with current profiles from railway applications. , 2021, , .		0