

Alexandre Ravey

List of Publications by Year in descending order

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65
papers

2,712
citations

218677

26
h-index

414414

32
g-index

65
all docs

65
docs citations

65
times ranked

1749
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel equivalent consumption minimization strategy for hybrid electric vehicle powered by fuel cell, battery and supercapacitor. Journal of Power Sources, 2018, 395, 262-270.	7.8	190
2	Online adaptive equivalent consumption minimization strategy for fuel cell hybrid electric vehicle considering power sources degradation. Energy Conversion and Management, 2019, 192, 133-149.	9.2	176
3	A survey on driving prediction techniques for predictive energy management of plug-in hybrid electric vehicles. Journal of Power Sources, 2019, 412, 480-495.	7.8	161
4	Online energy management strategy of fuel cell hybrid electric vehicles based on data fusion approach. Journal of Power Sources, 2017, 366, 278-291.	7.8	159
5	Online Energy Management Strategy of Fuel Cell Hybrid Electric Vehicles: A Fractional-Order Extremum Seeking Method. IEEE Transactions on Industrial Electronics, 2018, 65, 6787-6799.	7.9	144
6	Multi-mode predictive energy management for fuel cell hybrid electric vehicles using Markov driving pattern recognizer. Applied Energy, 2020, 258, 114057.	10.1	129
7	Control Strategies for Fuel-Cell-Based Hybrid Electric Vehicles: From Offline to Online and Experimental Results. IEEE Transactions on Vehicular Technology, 2012, 61, 2452-2457.	6.3	111
8	Real-time cost-minimization power-allocating strategy via model predictive control for fuel cell hybrid electric vehicles. Energy Conversion and Management, 2021, 229, 113721.	9.2	104
9	Online remaining useful lifetime prediction of proton exchange membrane fuel cells using a novel robust methodology. Journal of Power Sources, 2018, 399, 314-328.	7.8	103
10	A comparative study of extremum seeking methods applied to online energy management strategy of fuel cell hybrid electric vehicles. Energy Conversion and Management, 2017, 151, 778-790.	9.2	102
11	Degradation prediction of PEM fuel cell using a moving window based hybrid prognostic approach. Energy, 2017, 138, 1175-1186.	8.8	95
12	Energy-Source-Sizing Methodology for Hybrid Fuel Cell Vehicles Based on Statistical Description of Driving Cycles. IEEE Transactions on Vehicular Technology, 2011, 60, 4164-4174.	6.3	85
13	An integrated predictive energy management for light-duty range-extended plug-in fuel cell electric vehicle. Journal of Power Sources, 2020, 451, 227780.	7.8	83
14	Demand side energy management of EV charging stations by approximate dynamic programming. Energy Conversion and Management, 2019, 196, 878-890.	9.2	75
15	Multi-objective energy management for fuel cell electric vehicles using online-learning enhanced Markov speed predictor. Energy Conversion and Management, 2020, 213, 112821.	9.2	75
16	Design and Development of a Smart Control Strategy for Plug-In Hybrid Vehicles Including Vehicle-to-Home Functionality. IEEE Transactions on Transportation Electrification, 2015, 1, 168-177.	7.8	72
17	A Robust Prognostic Indicator for Renewable Energy Technologies: A Novel Error Correction Grey Prediction Model. IEEE Transactions on Industrial Electronics, 2019, 66, 9312-9325.	7.9	72
18	Online Estimation of Lithium Polymer Batteries State-of-Charge Using Particle Filter-Based Data Fusion With Multimodels Approach. IEEE Transactions on Industry Applications, 2016, 52, 2582-2595.	4.9	70

#	ARTICLE	IF	CITATIONS
19	Degradation prediction of PEM fuel cell based on artificial intelligence. International Journal of Hydrogen Energy, 2020, 45, 14953-14963.	7.1	68
20	Degradation Prediction of PEM Fuel Cell Stack Based on Multiphysical Aging Model With Particle Filter Approach. IEEE Transactions on Industry Applications, 2017, 53, 4041-4052.	4.9	64
21	Hierarchical Operation of Electric Vehicle Charging Station in Smart Grid Integration Applications "An Overview. International Journal of Electrical Power and Energy Systems, 2022, 139, 108005.	5.5	63
22	Parameter Sensitivity Analysis for Fractional-Order Modeling of Lithium-Ion Batteries. Energies, 2016, 9, 123.	3.1	52
23	Dynamic Phenomena Coupling Analysis and Modeling of Proton Exchange Membrane Fuel Cells. IEEE Transactions on Energy Conversion, 2016, 31, 1399-1412.	5.2	50
24	A strong robust DC-DC converter of all-digital high-order sliding mode control for fuel cell power applications. Journal of Power Sources, 2019, 413, 222-232.	7.8	48
25	Real-time energy management of photovoltaic-assisted electric vehicle charging station by markov decision process. Journal of Power Sources, 2020, 476, 228504.	7.8	46
26	Long term durability test of open-cathode fuel cell system under actual operating conditions. Energy Conversion and Management, 2020, 212, 112813.	9.2	36
27	Combined optimal sizing and energy management of hybrid electric vehicles. , 2012, , .		27
28	A Review of Energy Management Strategy for Fuel Cell Hybrid Electric Vehicle. , 2017, , .		24
29	Multi-Objective Optimization-Based Health-Conscious Predictive Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles. Energies, 2022, 15, 1318.	3.1	21
30	Online energy management strategy of fuel cell hybrid electric vehicles based on time series prediction. , 2017, , .		18
31	Energy sources sizing for hybrid fuel cell vehicles based on statistical description of driving cycles. , 2010, , .		16
32	Tridiagonal Matrix Algorithm for Real-Time Simulation of a Two-Dimensional PEM Fuel Cell Model. IEEE Transactions on Industrial Electronics, 2018, 65, 7106-7118.	7.9	14
33	A Real Time Energy Management for EV Charging Station Integrated with Local Generations and Energy Storage System. , 2018, , .		14
34	Control strategies for fuel cell based hybrid electric vehicles: From offline to online. , 2011, , .		12
35	A model and strategy to improve smart home energy resilience during outages using vehicle-to-home. , 2014, , .		12
36	Control strategy of fuel cell electric vehicle including degradation process. , 2015, , .		12

#	ARTICLE	IF	CITATIONS
37	Development of a Multiphysical 2-D Model of a PEM Fuel Cell for Real-Time Control. IEEE Transactions on Industry Applications, 2018, 54, 4864-4874.	4.9	10
38	Power Optimization Distribution Method for Fuel Cell System Cluster Comprehensively Considering System Economy. IEEE Transactions on Industrial Electronics, 2022, 69, 12898-12911.	7.9	10
39	Equivalent consumption minimization strategy for fuel cell hybrid electric vehicle considering fuel cell degradation. , 2017, , .		9
40	Operational cost analysis of fuel cell electric vehicles under different powertrain-sizing configurations. , 2020, , .		9
41	Control strategy of fuel cell hybrid electric vehicle based on driving cycle recognition. , 2012, , .		6
42	Energy management of fuel cell electric vehicle with hybrid tanks. , 2014, , .		5
43	On-line estimation of lithium polymer batteries state-of-charge using particle filter based data fusion with multi-models approach. , 2015, , .		5
44	Degradation prediction of PEM fuel cell stack based on multi-physical aging model with particle filter approach. , 2016, , .		5
45	State of health estimation of lithium-ion batteries under variable load profile. , 2017, , .		5
46	Electric motor control for hybrid electric vehicles based on different driving cycles. , 2013, , .		4
47	Autonomy estimation for EV based on road planning software. , 2014, , .		4
48	Dynamic variable coupling analysis and modeling of proton exchange membrane fuel cells for water and thermal management. , 2016, , .		4
49	A Velocity Prediction Method based on Self-Learning Multi-Step Markov Chain. , 2019, , .		4
50	Robust Energy Management System for Multi-Source DC Energy Systemsâ€™Real-Time Setup and Validation. IEEE Transactions on Control Systems Technology, 2020, 28, 2591-2599.	5.2	4
51	Degraded control strategy using state-of-health in fuel cell hybrid electric vehicles. , 2013, , .		3
52	Battery Aging Study Using Field Use Data. , 2017, , .		3
53	System-Level Modeling and Virtual Testing of Fuel Cell Vehicle Mobypost Using Energetic Macroscopic Representation. , 2021, , .		3
54	Adaptive control of hybrid vehicle depending on driving cycle analysis. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
55	Powertrain energy management for Hybrid Electric Scooter. , 2014, , .		2
56	Equivalent consumption minimization strategy for hybrid electric vehicle powered by fuel cell, battery and supercapacitor. , 2016, , .		2
57	Coordinated Control of a Fast V2G Charging Station with PV Generation and Energy Storage Systems. , 2017, , .		2
58	Real-time Predictive Energy Management for Fuel Cell Electric Vehicles. , 2021, , .		2
59	Distance estimation algorithm for plug-in hybrid electric vehicle control strategy. , 2013, , .		1
60	Online estimation of state of charge of Li-ion battery using an iterated extended Kalman particle filter. , 2015, , .		1
61	Development of a multiphysical multidimensional modeling of proton exchange membrane fuel cell. , 2016, , .		1
62	Development of a multi-physical 2-D model of PEM fuel cell for real-time control. , 2017, , .		1
63	Battery Modeling using Real Driving Cycle and Big-Bang Big-Crunch algorithm. , 2018, , .		1
64	Predictive Energy Management for Fuel Cell Hybrid Electric Vehicles. Springer Optimization and Its Applications, 2022, , 1-44.	0.9	1
65	Multi-Mode Power Allocation Strategy Based on Kalman Filter Algorithm for Hybrid Electric Vehicle. , 2021, , .		0