

Olivier Briat

List of Publications by Year in descending order

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83
papers

2,560
citations

218677

26
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206112

48
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83
all docs

83
docs citations

83
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	An Incremental Capacity Parametric Model Based on Logistic Equations for Battery State Estimation and Monitoring. Batteries, 2022, 8, 39.	4.5	5
2	Comparison of the impact of fast charging on the cycle life of three lithium-ion cells under several parameters of charge protocol and temperatures. Applied Energy, 2021, 283, 116344.	10.1	45
3	Fast charging for electric vehicles applications: Numerical optimization of a multi-stage charging protocol for lithium-ion battery and impact on cycle life. Journal of Energy Storage, 2021, 40, 102756.	8.1	22
4	A Comprehensive Review on Energy Management Strategies for Electric Vehicles Considering Degradation Using Aging Models. IEEE Access, 2021, 9, 143922-143940.	4.2	17
5	Setting up the Reference Performance Tests of an Ageing Campaign for Non-Intrusive Diagnosis on Li4Ti5O12 and LiMn1-xFexPO4 Based Cells. ECS Meeting Abstracts, 2020, MA2020-02, 3437-3437.	0.0	0
6	Non-isothermal Ragone plots of Li-ion cells from datasheet and galvanostatic discharge tests. Applied Energy, 2019, 247, 703-715.	10.1	12
7	Comparative Ageing Study of CC-CV Fast Charging for Commercial 18650 Li-Ion Cells: Impact of Environmental Temperature. , 2019, , .		2
8	Electro-Thermal Behavior of Four Fast Charging Protocols for a Lithium-Ion Cell at Different Temperatures. , 2018, , .		3
9	Efficient state of health estimation of Li-ion battery under several ageing types for aeronautic applications. Microelectronics Reliability, 2018, 88-90, 1231-1235.	1.7	23
10	Characterization of external pressure effects on lithium-ion pouch cell. , 2018, , .		6
11	D-optimal design of experiments applied to lithium battery for ageing model calibration. Energy, 2017, 141, 2108-2119.	8.8	52
12	Performance quantification of latest generation Li-ion batteries in wide temperature range. , 2017, , .		4
13	Lithium-Ion Battery Ageing Assessment Based on a Reduced Design of Experiments. , 2017, , .		3
14	Lithium Battery Aging Model Based on Chemical Rate Approach. , 2016, , .		3
15	State of health assessment for lithium batteries based on voltageâ€‘time relaxation measure. Electrochimica Acta, 2016, 194, 461-472.	5.2	56
16	Chemical rate phenomenon approach applied to lithium battery capacity fade estimation. Microelectronics Reliability, 2016, 64, 134-139.	1.7	8
17	Impact of Voltage Resets on Supercapacitors Aging. IEEE Transactions on Industrial Electronics, 2016, 63, 7703-7711.	7.9	26
18	Lithium battery aging model based on Dakinâ€™s degradation approach. Journal of Power Sources, 2016, 325, 273-285.	7.8	143

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19	Dynamic Battery Aging Model: Representation of Reversible Capacity Losses Using First Order Model Approach. , 2015, , .		4
20	Electro-thermal model of lithium-ion batteries for electrified vehicles applications. , 2015, , .		21
21	Study of static converters related ripple currents effects on supercapacitors ageing within DC networks. , 2015, , .		5
22	Performance comparison of four lithium-ion battery technologies under calendar aging. Energy, 2015, 84, 542-550.	8.8	129
23	Study on specific effects of high frequency ripple currents and temperature on supercapacitors ageing. Microelectronics Reliability, 2015, 55, 2027-2031.	1.7	11
24	Influence of thermal cycling on supercapacitor performance fading during ageing test at constant voltage. , 2014, , .		7
25	Ageing law for supercapacitors floating ageing. , 2014, , .		11
26	Modeling and adaptive control for supercapacitor in automotive applications based on artificial neural networks. Electric Power Systems Research, 2014, 106, 134-141.	3.6	37
27	Determination of lithium-ion battery state-of-health based on constant-voltage charge phase. Journal of Power Sources, 2014, 258, 218-227.	7.8	112
28	Capacitance recovery analysis and modelling of supercapacitors during cycling ageing tests. Energy Conversion and Management, 2014, 82, 37-45.	9.2	32
29	Description of supercapacitor performance degradation rate during thermal cycling under constant voltage ageing test. Microelectronics Reliability, 2014, 54, 1944-1948.	1.7	20
30	Prediction of supercapacitors floating ageing with surface electrode interface based ageing law. Microelectronics Reliability, 2014, 54, 1813-1817.	1.7	34
31	Feasibility and performances of BOOST converter in automotive application using silicon power transistors operating at 200°C. , 2014, , .		0
32	Improved Supercapacitor Floating Ageing Interpretation Through Multipore Impedance Model Parameters Evolution. IEEE Transactions on Power Electronics, 2014, 29, 3669-3678.	7.9	51
33	Electrochemical Double Layer Capacitors (supercapacitors) Ageing Impacts and Comparison on Different Impedance Models. EPE Journal (European Power Electronics and Drives Journal), 2014, 24, 6-13.	0.7	3
34	Impact of high frequency current ripple on supercapacitors ageing through floating ageing tests. Microelectronics Reliability, 2013, 53, 1643-1647.	1.7	9
35	Thermal cycling impacts on supercapacitor performances during calendar ageing. Microelectronics Reliability, 2013, 53, 1628-1631.	1.7	14
36	Thermal characterization of a high-power lithium-ion battery: Potentiometric and calorimetric measurement of entropy changes. Energy, 2013, 61, 432-439.	8.8	136

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37	Online parameter identification for real-time supercapacitor performance estimation in automotive applications. International Journal of Electrical Power and Energy Systems, 2013, 51, 162-167.	5.5	45
38	Lithium-ion battery heat generation investigation based on calorimetric entropy measurements. , 2013, , .		6
39	Voltage and temperature impacts on leakage current in calendar ageing of supercapacitors. , 2013, , .		6
40	Ultracapacitor performance determination using dynamic model parameter identification. , 2013, , .		6
41	Lithium-ion battery performance improvement based on capacity recovery exploitation. Electrochimica Acta, 2013, 114, 750-757.	5.2	68
42	Supercapacitors ageing prediction by neural networks. , 2013, , .		17
43	An Implementation Solution for Fractional Partial Differential Equations. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	3
44	Strategy for lithium-ion battery performance improvement during power cycling. , 2013, , .		6
45	Multilevel neural-network model for supercapacitor module in automotive applications. , 2013, , .		2
46	Electrosorption phenomena taken into account in a fractional model of supercapacitor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 254-259.	0.4	2
47	Real-time SOC and SOH estimation for EV Li-ion cell using online parameters identification. , 2012, , .		25
48	Comparison of EDLC impedance models used for ageing monitoring. , 2012, , .		11
49	Adaptive voltage estimation for EV Li-ion cell based on artificial neural networks state-of-charge meter. , 2012, , .		25
50	Interpretation of electrochemical double layer capacitors (Supercapacitors) floating ageing by multi-pore model. , 2012, , .		3
51	Behavior and state-of-health monitoring of Li-ion batteries using impedance spectroscopy and recurrent neural networks. International Journal of Electrical Power and Energy Systems, 2012, 42, 487-494.	5.5	332
52	Remaining useful life prediction of lithium batteries in calendar ageing for automotive applications. Microelectronics Reliability, 2012, 52, 2438-2442.	1.7	124
53	Lithium-ion cell modeling from impedance spectroscopy for EV applications. , 2011, , .		10
54	Neural networks based model and voltage control for lithium polymer batteries. , 2011, , .		9

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55	Ageing monitoring of lithium-ion cell during power cycling tests. Microelectronics Reliability, 2011, 51, 1968-1971.	1.7	42
56	How supercapacitors reach end of life criteria during calendar life and power cycling tests. Microelectronics Reliability, 2011, 51, 1976-1979.	1.7	20
57	Ageing quantification of supercapacitors during power cycling using online and periodic characterization tests. , 2011, , .		7
58	Li-Po batteries modeling for mail delivery electric vehicles. , 2011, , .		3
59	Impact du vieillissement cyclique des supercondensateurs sur les performances dans une application vÃ©hicule hybride. European Journal of Electrical Engineering, 2011, 14, 399-413.	0.3	0
60	Contribution of calendar ageing modes in the performances degradation of supercapacitors during power cycling. Microelectronics Reliability, 2010, 50, 1796-1803.	1.7	26
61	Fractional non-linear modelling of ultracapacitors. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1327-1337.	3.3	60
62	Impact of the ageing of supercapacitors in power cycling on the behaviour of hybrid electric vehicles applications. , 2010, , .		5
63	Embedded Fractional Nonlinear Supercapacitor Model and Its Parametric Estimation Method. IEEE Transactions on Industrial Electronics, 2010, 57, 3991-4000.	7.9	100
64	A New Non-Linear Supercapacitor Embedded Model and Its Online Time Identification Method. , 2009, , .		3
65	Impact of Calendar Life and Cycling Ageing on Supercapacitor Performance. IEEE Transactions on Vehicular Technology, 2009, 58, 3917-3929.	6.3	116
66	Analysis of the dynamic behavior changes of supercapacitors during calendar life test under several voltages and temperatures conditions. Microelectronics Reliability, 2009, 49, 1391-1397.	1.7	17
67	Ageing assessment of supercapacitors during calendar life and power cycling tests. , 2009, , .		7
68	Comparison between changes of ultracapacitors model parameters during calendar life and power cycling ageing tests. Microelectronics Reliability, 2008, 48, 1473-1478.	1.7	32
69	Parameters evolution of an ultracapacitor impedance model with ageing during power cycling tests. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	8
70	Ultracapacitors self discharge modelling using a physical description of porous electrode impedance. , 2008, , .		17
71	Porous electrode theory for ultracapacitor modelling and experimental validation. , 2008, , .		7
72	Monitoring fading rate of ultracapacitors using online characterization during power cycling. Microelectronics Reliability, 2007, 47, 1751-1755.	1.7	5

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73	Principle, design and experimental validation of a flywheel-battery hybrid source for heavy-duty electric vehicles. IET Electric Power Applications, 2007, 1, 665.	1.8	44
74	Quantification of ageing of ultracapacitors during cycling tests with current profile characteristics of hybrid and electric vehicles applications. IET Electric Power Applications, 2007, 1, 683.	1.8	28
75	Characterization methods and modelling of ultracapacitors for use as peak power sources. Journal of Power Sources, 2007, 168, 553-560.	7.8	133
76	Power cycling tests for accelerated ageing of ultracapacitors. Microelectronics Reliability, 2006, 46, 1445-1450.	1.7	12
77	Specification and use of pulsed current profiles for ultracapacitors power cycling. Microelectronics Reliability, 2005, 45, 1746-1749.	1.7	10
78	A Systematic Hard- and Soft-Switching Performances Evaluation of 1200V Punchthrough IGBT Structures. IEEE Transactions on Power Electronics, 2004, 19, 231-241.	7.9	18
79	First step in the reliability assessment of ultracapacitors used as power source in hybrid electric vehicles. Microelectronics Reliability, 2004, 44, 1769-1773.	1.7	4
80	Study of ultracapacitors dynamic behaviour using impedance frequency analysis on a specific test bench. , 2004, , .		12
81	IGBT Power modules thermal characterization : what is the optimum between a low current - high voltage or a high current - low voltage test condition for the same electrical power?. Microelectronics Reliability, 2003, 43, 1901-1906.	1.7	0
82	Strategy for designing accelerated aging tests to evaluate IGBT power modules lifetime in real operation mode. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 429-438.	1.3	56
83	Local lifetime control IGBT structures: turn-off performances comparison for hard- and soft-switching between 1200V trench and new planar PT-IGBTs. Microelectronics Reliability, 2001, 41, 1731-1736.	1.7	2