

Serge Pelissier

List of Publications by Year in descending order

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52
papers

1,146
citations

516710

16
h-index

395702

33
g-index

53
all docs

53
docs citations

53
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Calendar aging of a graphite/LiFePO ₄ cell. Journal of Power Sources, 2012, 208, 296-305.	7.8	259
2	Eyring acceleration model for predicting calendar ageing of lithium-ion batteries. Journal of Energy Storage, 2017, 13, 176-183.	8.1	77
3	Self-Processing of Surface-Relief Gratings in Photosensitive Hybrid Sol-Gel Glasses. Advanced Materials, 1999, 11, 1508-1511.	21.0	74
4	Practical Online Estimation of Lithium-Ion Battery Apparent Series Resistance for Mild Hybrid Vehicles. IEEE Transactions on Vehicular Technology, 2016, 65, 4505-4511.	6.3	66
5	Global Model for Self-Discharge and Capacity Fade in Lithium-Ion Batteries Based on the Generalized Eyring Relationship. IEEE Transactions on Vehicular Technology, 2018, 67, 104-113.	6.3	63
6	Optimal Scheduling to Manage an Electric Bus Fleet Overnight Charging. Energies, 2019, 12, 2727.	3.1	53
7	Single-step UV recording of sinusoidal surface gratings in hybrid solgel glasses. Applied Optics, 1999, 38, 6744.	2.1	46
8	Fast Characterization Method for Modeling Battery Relaxation Voltage. Batteries, 2016, 2, 7.	4.5	46
9	Efficiency Degradation Model of Lithium-Ion Batteries for Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 1932-1940.	4.9	46
10	Calendar and cycling ageing combination of batteries in electric vehicles. Microelectronics Reliability, 2018, 88-90, 1212-1215.	1.7	42
11	Modelling Lithium-Ion Battery Ageing in Electric Vehicle Applications – Calendar and Cycling Ageing Combination Effects. Batteries, 2020, 6, 14.	4.5	37
12	Fabrication of sub-micron period diffraction gratings in self-processing sol-gel glasses. Thin Solid Films, 2001, 384, 251-253.	1.8	32
13	Energy management strategy to reduce pollutant emissions during the catalyst light-off of parallel hybrid vehicles. Applied Energy, 2020, 266, 114866.	10.1	28
14	Fast Electrical Characterizations of High-Energy Second Life Lithium-Ion Batteries for Embedded and Stationary Applications. Batteries, 2019, 5, 33.	4.5	27
15	Optical fibre young modulus measurement using an optical method. Electronics Letters, 1992, 28, 1034-1035.	1.0	24
16	Frequency and Temporal Identification of a Li-ion Polymer Battery Model Using Fractional Impedance. Oil and Gas Science and Technology, 2010, 65, 67-78.	1.4	24
17	Study of graphite/NCA Li-ion cell degradation during accelerated aging tests — Data analysis of the SIMSTOCK project. , 2011, , .		19
18	Nonlinear optimization methods applied to magnetic actuators design. IEEE Transactions on Magnetics, 1992, 28, 1581-1584.	2.1	15

#	ARTICLE	IF	CITATIONS
19	Flying phase mask for the printing of long submicron-period stitchingless gratings. <i>Microelectronic Engineering</i> , 2006, 83, 734-737.	2.4	15
20	Photo-Induced Swelling of Hybrid Sol-Gel Thin Films: Application to Surface Micro-Patterning. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 27, 215-220.	2.4	13
21	Impact of periodic current pulses on Li-ion batteries lifetime in vehicular application. <i>International Journal of Electric and Hybrid Vehicles</i> , 2015, 7, 323.	0.3	13
22	Measuring Reversible and Irreversible Capacity Losses on Lithium-Ion Batteries. , 2016, , .		13
23	Real-world battery duty profile of a neighbourhood electric vehicle. <i>Transportation Research Part C: Emerging Technologies</i> , 2012, 25, 122-133.	7.6	12
24	Experimental Protocols and First Results of Calendar and/or Cycling Aging Study of Lithium-Ion Batteries “the MOBICUS Project. <i>World Electric Vehicle Journal</i> , 2016, 8, 388-397.	3.0	11
25	Simcal Project: Calendar Aging Results Obtained On a Panel of 6 Commercial Li-Ion Cells. <i>ECS Meeting Abstracts</i> , 2013, MA2013-02, 1191-1191.	0.0	10
26	Multi-Objective Optimisation of the Management of Electric Bus Fleet Charging. , 2017, , .		9
27	Generation of a Real-Life Battery Usage Pattern for Electrical Vehicle Application and Aging Comparison With the WLTC Profile. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 5618-5627.	6.3	9
28	Optimization of a linear permanent magnet actuator. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 101, 335-337.	2.3	6
29	Influence of the non-conservation of SoC value during calendar ageing tests on modelling the capacity loss of batteries. , 2015, , .		6
30	Optimal Control of a Spark Ignition Engine Including Cold Start Operations for Consumption/Emissions Compromises. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 971.	2.5	6
31	Classification of duty pulses affecting energy storage systems in vehicular applications. , 2010, , .		5
32	Luenberger observer for SoC determination of lithium-ion cells in mild hybrid vehicles, compared to a Kalman filter. , 2015, , .		5
33	Impact of battery ageing on e-mobility energy efficiency. , 2017, , .		5
34	A quadratic programming based optimisation to manage electric bus fleet charging. <i>International Journal of Electric and Hybrid Vehicles</i> , 2019, 11, 289.	0.3	5
35	Optimal Charging Strategy to Minimize Electricity Cost and Prolong Battery Life of Electric Bus Fleet. , 2019, , .		5
36	Construction of Database on Real World Uses of Electric Vehicles - A French Case. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Battery Aging Study Using Field Use Data. , 2017, , .		3
38	New technique to produce buried channel waveguides in glass. Optical Engineering, 1998, 37, 1111.	1.0	2
39	Lithium-Ion Cell Empirical Efficiency Maps. , 2018, , .		2
40	Smart charging of electric bus fleet minimizing battery degradation at extreme temperature conditions. , 2021, , .		2
41	Fabrication of buried corrugated waveguides by wafer direct bonding. Journal of Lightwave Technology, 2000, 18, 540-545.	4.6	1
42	A solid mechanics approach to surface relief formation in photosensitive hybrid sol-gel materials. Applied Physics A: Materials Science and Processing, 2004, 78, 407-409.	2.3	1
43	Optimizing Fuel Consumption and Pollutant Emissions of a Spark Ignition Engine for Eco-Driving Applications. , 2018, , .		1
44	Battery Modeling using Real Driving Cycle and Big-Bang Big-Crunch algorithm. , 2018, , .		1
45	Determination of the electric vehicles driving modes in real life conditions by classification methods. , 2018, , .		1
46	A quadratic programming based optimisation to manage electric bus fleet charging. International Journal of Electric and Hybrid Vehicles, 2019, 11, 289.	0.3	1
47	Optimal Control for Cleaner Hybrid Vehicles: A Backward Approach. Applied Sciences (Switzerland), 2022, 12, 578.	2.5	1
48	<title>Glass wafer direct bonding: a new technology for monomode optical integrated devices</title>. , 1996, , .		0
49	<title>New assembly technique for deeply buried optical waveguides</title>. , 1996, , .		0
50	Photoluminescence spectroscopy of direct bonded silica based wafers. Journal of Non-Crystalline Solids, 1997, 216, 95-98.	3.1	0
51	<title>Efficient surface gratings in hybrid sol-gel glasses</title>. , 1999, , .		0
52	Battery duty profile of a heavy-duty trolleybus. , 2012, , .		0