

Giovanni Lutzemberger

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,180
citations

471061

17
h-index

500791

28
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87
all docs

87
docs citations

87
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal sizing of residential battery systems with multi-year dynamics and a novel rainflow-based model of storage degradation: An extensive Italian case study. <i>Electric Power Systems Research</i> , 2022, 203, 107675.	2.1	19
2	Heavy-duty hybrid transportation systems: Design, modeling, and energy management. , 2022, , 313-336.		0
3	An Electro-Thermal Model for LFP Cells: Calibration Procedure and Validation. <i>Energies</i> , 2022, 15, 2653.	1.6	7
4	State-of-charge estimation based on model-adaptive Kalman filters. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2021, 235, 1272-1286.	0.7	5
5	Design of a Wireless Charging System for Online Battery Spectroscopy. <i>Energies</i> , 2021, 14, 218.	1.6	33
6	On the Investigation of Energy Efficient Torque Distribution Strategies through a Comprehensive Powertrain Model. <i>Sustainability</i> , 2021, 13, 4549.	1.6	4
7	Coupling economic multi-objective optimization and multiple design options: A business-oriented approach to size an off-grid hybrid microgrid. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 127, 106686.	3.3	21
8	Development of a battery real-time state of health diagnosis based on fast impedance measurements. <i>Journal of Energy Storage</i> , 2021, 38, 102566.	3.9	58
9	Experimental Evaluation of Aging Indicators for Lithium-iron-Phosphate Cells. <i>Energies</i> , 2021, 14, 4813.	1.6	2
10	Model Parameter Evaluation for Nickel-Manganese-Cobalt Cells: An Examination and Verification of Various Approaches. <i>IEEE Industry Applications Magazine</i> , 2021, 27, 29-36.	0.3	2
11	Design and Realization of an Inductive Power Transfer for Shuttles in Automated Warehouses. <i>Energies</i> , 2021, 14, 5660.	1.6	5
12	Development of an Energy Management System for AC/DC hybrid networks: from abstract functional requirements to the flexible tool. , 2021, , .		1
13	Modelling urban EV charging stations with PV generation and energy storage. , 2021, , .		1
14	Electrical lithium battery performance model for second life applications. , 2020, , .		8
15	Impedance spectroscopy characterization of lithium batteries with different ages in second life application. , 2020, , .		8
16	Experimental analysis of LFP lithium cells aging. , 2020, , .		1
17	Heuristic approaches to size microgrids: a methodology to compile multiple design options. , 2020, , .		4
18	Use of AMT Transformers and Distributed Storage Systems to Enhance Electrical Feeding Systems for Tramways. <i>Energies</i> , 2020, 13, 4725.	1.6	0

#	ARTICLE	IF	CITATIONS
19	Experimental Analysis of Ni-MH High Power Cells. , 2020, , .		1
20	Luenberger-based State-Of-Charge evaluation and experimental validation with lithium cells. Journal of Energy Storage, 2020, 30, 101534.	3.9	16
21	Economic multi-objective approach to design off-grid microgrids: A support for business decision making. Renewable Energy, 2020, 159, 693-704.	4.3	37
22	Hybridisation of forklift trucks. IET Electrical Systems in Transportation, 2020, 10, 116-123.	1.5	7
23	Parametric analysis of 2 Å– 25ÅkV railway electric supply. IET Electrical Systems in Transportation, 2020, 10, 44-51.	1.5	4
24	Luenberger Observer for Lithium Battery State-of-Charge Estimation. Lecture Notes in Electrical Engineering, 2020, , 655-667.	0.3	4
25	Electro-mechanical modelling and simulation of 2Å–25 kV railway systems. , 2020, , .		0
26	Optimisation of hybrid vehicles operation with ON/OFF strategy. , 2019, , .		0
27	Modelling and Simulation of Tramway Transportation Systems. Journal of Advanced Transportation, 2019, 2019, 1-8.	0.9	11
28	Simulation and experimental validation of a hybrid forklift truck. , 2019, , .		2
29	Use of Modelica language to simulate electrified railway lines and trains. Software - Practice and Experience, 2019, 49, 1114.	2.5	3
30	Model parameters evaluation for NMC cells. , 2019, , .		7
31	Multi-Objective Optimization of Off-Grid Hybrid Renewable Energy Systems in Buildings with Prior Design-Variable Screening. Energies, 2019, 12, 3026.	1.6	17
32	The possible impact of weather uncertainty on the Dynamic Thermal Rating of transmission power lines: A Monte Carlo error-based approach. Electric Power Systems Research, 2019, 170, 338-347.	2.1	22
33	Optimal design of off-grid power systems operated by a rolling-horizon strategy: a method to reduce computational requirements. , 2019, , .		1
34	Electro-mechanical modelling and simulation of railroad systems. , 2019, , .		2
35	Energy storage systems to exploit regenerative braking in DC railway systems: Different approaches to improve efficiency of modern high-speed trains. Journal of Energy Storage, 2018, 16, 269-279.	3.9	48
36	Stochastic sizing of isolated rural mini-grids, including effects of fuel procurement and operational strategies. Electric Power Systems Research, 2018, 160, 419-428.	2.1	37

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37	Experimental Analysis of NMC Lithium Cells Aging for Second Life Applications. , 2018, , .		6
38	Online Identification of Thevenin Equivalent Circuit Model Parameters and Estimation State of Charge of Lithium-Ion Batteries. , 2018, , .		22
39	Use of electrochemical storage to enhance energy and cost efficiency of a railway node. , 2018, , .		1
40	Performance evaluation of a medium size diesel vehicle equipped with different electric turbo compound layouts. IET Electrical Systems in Transportation, 2018, 8, 71-79.	1.5	5
41	Hybridization of rubber tired gantry (RTG) cranes. Journal of Energy Storage, 2017, 12, 186-195.	3.9	30
42	Optimised operation of storage systems integrated with MV photovoltaic plants, considering the impact on the battery lifetime. Journal of Energy Storage, 2017, 12, 178-185.	3.9	15
43	State-Of-Charge Evaluation Of Supercapacitors. Journal of Energy Storage, 2017, 11, 211-218.	3.9	60
44	Optimal operation of storage systems integrated with MV photovoltaic plants, using Jmodelica. , 2017, , .		0
45	Full electric and hybrid series vans: Cost, performance and efficiency evaluation for different powertrain layout. , 2017, , .		3
46	Optimal sizing of a hybrid mini-grid considering the fuel procurement and a rolling horizon system operation. , 2017, , .		2
47	Modelling 25 kV 50 Hz traction systems for power frequency studies. , 2017, , .		6
48	Design of a hydraulic servo-actuation fed by a regenerative braking system. Applied Energy, 2017, 187, 96-115.	5.1	70
49	Hybridisation of railcars for usage in non-electrified lines. , 2017, , .		7
50	Auxiliary Power Units for pleasure boats. , 2017, , .		3
51	Optimal sizing of a mini-grid in developing countries, taking into account the operation of an electrochemical storage and a fuel tank. , 2017, , .		7
52	New approaches to simulate AC electrified railway systems. , 2017, , .		2
53	Modelling and design of improved powertrain solutions for electric and hybrid buses. IET Electrical Systems in Transportation, 2017, 7, 287-294.	1.5	3
54	The AMLEV technology applied to low speed urban transportation systems. , 2017, , .		1

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55	Automated people mover: a comparison between conventional and permanent magnets MAGLEV systems. IET Electrical Systems in Transportation, 2017, 7, 295-302.	1.5	3
56	Hybrid energy systems in mobility applications. , 2016, , .		4
57	Dynamic optimisation of price arbitrage techniques. , 2016, , .		2
58	Electromechanical dynamics of overhead electric power line conductors analysed through the Modelica language models. , 2016, , .		1
59	Aging evaluation of high power lithium cells subjected to micro-cycles. Journal of Energy Storage, 2016, 6, 116-124.	3.9	33
60	Regenerative braking in high speed railway applications: Analysis by different simulation tools. , 2016, , .		12
61	Modelling and simulation of electric urban transportation systems with energy storage. , 2016, , .		28
62	Optimal storage operation in EV charging stations delivering grid services. , 2016, , .		6
63	Integrated design of an hydraulic servo-system fed by vehicle regenerative braking. , 2016, , .		0
64	Evaluation of an electric turbo compound system for SI engines: A numerical approach. Applied Energy, 2016, 162, 527-540.	5.1	59
65	Energy optimization of hybrid vehicles: A general, suboptimal analysis. , 2015, , .		1
66	Cycle life evaluation of lithium cells subjected to micro-cycles. , 2015, , .		7
67	Control strategies and real time operation of storage systems integrated with MV photovoltaic plants. , 2015, , .		21
68	Systematic approach in the hybridization of a hydraulic skid loader. Automation in Construction, 2015, 58, 144-154.	4.8	25
69	Numerical Evaluation of an Electric Turbo Compound for SI Engines. , 2014, , .		7
70	Impact of a large fleet of EVs on the efficiency and reliability of an electric power system. , 2014, , .		6
71	Cost effective storage for energy saving in feeding systems of tramways. , 2014, , .		9
72	State of charge estimation of high power lithium iron phosphate cells. Journal of Power Sources, 2014, 249, 92-102.	4.0	79

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73	Stationary and on-board storage systems to enhance energy and cost efficiency of tramways. Journal of Power Sources, 2014, 264, 128-139.	4.0	51
74	Use of electrochemical storage in substations to enhance energy and cost efficiency of tramways. , 2013, , .		18
75	A novel human-machine interface for working machines operation. , 2013, , .		10
76	Realisation and test of a fuel-cell based vehicle. , 2012, , .		7
77	Development of a hybrid skid loader through modelling. , 2012, , .		4
78	Experimental study of hydrogen releases in the passenger compartment of a Piaggio Porter. International Journal of Hydrogen Energy, 2012, 37, 17470-17477.	3.8	5
79	Experiences of realisation and test of a fuel-cell based vehicle. , 2010, , .		13
80	Systematic development of series-hybrid bus through modelling. , 2010, , .		16
81	High power Lithium Batteries usage in hybrid vehicles. , 2010, , .		19
82	Experiences in Modeling and simulation of hydrogen fuel-cell based propulsion systems. , 2009, , .		16
83	Comparison of SC and high-power batteries for use in hybrid vehicles. , 0, , .		16
84	Experimentally-Determined Models for High-Power Lithium Batteries. , 0, , .		37
85	Numerical Analysis of Electrically Assisted Turbocharger Application on Hybrid Vehicle. , 0, , .		3
86	Cyber-Physical Modelling of Railroad Vehicle Systems using Modelica Simulation Language. , 0, , .		9
87	Electrical Storage for the Enhancement of Energy and Cost Efficiency of Urban Railroad Systems. , 0, , .		12