

Massimo Ceraolo

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,260
citations

516215

16
h-index

414034

32
g-index

78
all docs

78
docs citations

78
times ranked

1687
citing authors

#	ARTICLE	IF	CITATIONS
1	New dynamical models of lead-acid batteries. IEEE Transactions on Power Systems, 2000, 15, 1184-1190.	4.6	482
2	High fidelity electrical model with thermal dependence for characterization and simulation of high power lithium battery cells. , 2012, , .		260
3	Dynamical models of lead-acid batteries: implementation issues. IEEE Transactions on Energy Conversion, 2002, 17, 16-23.	3.7	229
4	Modelling static and dynamic behaviour of proton exchange membrane fuel cells on the basis of electro-chemical description. Journal of Power Sources, 2003, 113, 131-144.	4.0	220
5	A General Approach to Energy Optimization of Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2008, 57, 1433-1441.	3.9	82
6	Battery Model Parameter Estimation Using a Layered Technique: An Example Using a Lithium Iron Phosphate Cell. , 0, , .		72
7	Techniques for estimating the residual range of an electric vehicle. IEEE Transactions on Vehicular Technology, 2001, 50, 109-115.	3.9	61
8	State-Of-Charge Evaluation Of Supercapacitors. Journal of Energy Storage, 2017, 11, 211-218.	3.9	60
9	Evaluation of an electric turbo compound system for SI engines: A numerical approach. Applied Energy, 2016, 162, 527-540.	5.1	59
10	Techniques to control the electricity generation in a series hybrid electrical vehicle. IEEE Transactions on Energy Conversion, 2002, 17, 260-266.	3.7	52
11	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
12	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
13	Storage applications for Smartgrids. Electric Power Systems Research, 2015, 120, 109-117.	2.1	39
14	Experimentally-Determined Models for High-Power Lithium Batteries. , 0, , .		37
15	Aging evaluation of high power lithium cells subjected to micro-cycles. Journal of Energy Storage, 2016, 6, 116-124.	3.9	33
16	Simplified Extended Kalman Filter Observer for SOC Estimation of Commercial Power-Oriented LFP Lithium Battery Cells. , 0, , .		32
17	Hybridization of rubber tired gantry (RTG) cranes. Journal of Energy Storage, 2017, 12, 186-195.	3.9	30
18	Frequency dependent parameter model of supercapacitor. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1683-1689.	2.5	28

#	ARTICLE	IF	CITATIONS
19	Modelling and simulation of electric urban transportation systems with energy storage. , 2016, , .		28
20	Systematic approach in the hybridization of a hydraulic skid loader. Automation in Construction, 2015, 58, 144-154.	4.8	25
21	A parallel-hybrid drive-train for propulsion of a small scooter. IEEE Transactions on Power Electronics, 2006, 21, 768-778.	5.4	22
22	High power Lithium Batteries usage in hybrid vehicles. , 2010, , .		19
23	Use of electrochemical storage in substations to enhance energy and cost efficiency of tramways. , 2013, , .		18
24	Comparison of SC and high-power batteries for use in hybrid vehicles. , 0, , .		16
25	Luenberger-based State-Of-Charge evaluation and experimental validation with lithium cells. Journal of Energy Storage, 2020, 30, 101534.	3.9	16
26	Electric Vehicles Demonstration Projects - An Overview Across Europe. , 2020, , .		15
27	Lithium-ion starting-lighting-ignition batteries: Examining the feasibility. , 2011, , .		14
28	Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return. IEEE Transactions on Transportation Electrification, 2018, 4, 202-210.	5.3	14
29	Experiences of realisation and test of a fuel-cell based vehicle. , 2010, , .		13
30	Regenerative braking in high speed railway applications: Analysis by different simulation tools. , 2016, , .		12
31	Electrical Storage for the Enhancement of Energy and Cost Efficiency of Urban Railroad Systems. , 0, , .		12
32	Modelling and Simulation of Tramway Transportation Systems. Journal of Advanced Transportation, 2019, 2019, 1-8.	0.9	11
33	Cost effective storage for energy saving in feeding systems of tramways. , 2014, , .		9
34	Cyber-Physical Modelling of Railroad Vehicle Systems using Modelica Simulation Language. , 0, , .		9
35	Microcycle-based Efficiency of Hybrid Vehicle Batteries. , 0, , .		8
36	CAN-LabView based Development Platform for fine-tuning Hybrid Vehicle Management Systems. , 0, , .		7

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37	Realisation and test of a fuel-cell based vehicle. , 2012, , .		7
38	Numerical Evaluation of an Electric Turbo Compound for SI Engines. , 2014, , .		7
39	Model parameters evaluation for NMC cells. , 2019, , .		7
40	Hybridisation of forklift trucks. IET Electrical Systems in Transportation, 2020, 10, 116-123.	1.5	7
41	An Electro-Thermal Model for LFP Cells: Calibration Procedure and Validation. Energies, 2022, 15, 2653.	1.6	7
42	Modelling 25 kV 50 Hz traction systems for power frequency studies. , 2017, , .		6
43	Experimental Analysis of NMC Lithium Cells Aging for Second Life Applications. , 2018, , .		6
44	Aggregation and management of the demand in a deregulated electricity market. , 0, , .		5
45	Operation and Performance of a Small Scooter with a Parallel-hybrid Drive-train. , 2004, , .		5
46	Design and Realization of an Inductive Power Transfer for Shuttles in Automated Warehouses. Energies, 2021, 14, 5660.	1.6	5
47	Use of neural networks for customer tariff exploitation by means of short-term load forecasting. Neurocomputing, 1998, 23, 135-149.	3.5	4
48	Development of a hybrid skid loader through modelling. , 2012, , .		4
49	Hybrid energy systems in mobility applications. , 2016, , .		4
50	Parametric analysis of 25 kV railway electric supply. IET Electrical Systems in Transportation, 2020, 10, 44-51.	1.5	4
51	Luenberger Observer for Lithium Battery State-of-Charge Estimation. Lecture Notes in Electrical Engineering, 2020, , 655-667.	0.3	4
52	Electrification of Off-Road Vehicles: Examining the Feasibility for the Italian Market. World Electric Vehicle Journal, 2012, 5, 101-117.	1.6	3
53	Full electric and hybrid series vans: Cost, performance and efficiency evaluation for different powertrain layout. , 2017, , .		3
54	Modelling and design of improved powertrain solutions for electric and hybrid buses. IET Electrical Systems in Transportation, 2017, 7, 287-294.	1.5	3

#	ARTICLE	IF	CITATIONS
55	Use of Modelica language to simulate electrified railway lines and trains. Software - Practice and Experience, 2019, 49, 1114.	2.5	3
56	Fuel-Cell Based Propulsion Systems for Hybrid Railcars. , 2019, , .		3
57	A multifunction power supply center for experimental electric traction tests and certification. , 0, , .		2
58	Dynamic optimisation of price arbitrage techniques. , 2016, , .		2
59	New approaches to simulate AC electrified railway systems. , 2017, , .		2
60	Long duration simulations of railway AC Electrified lines. , 2018, , .		2
61	Experimental Evaluation of Aging Indicators for Lithium-iron-Phosphate Cells. Energies, 2021, 14, 4813.	1.6	2
62	Model Parameter Evaluation for Nickel-Manganese-Cobalt Cells: An Examination and Verification of Various Approaches. IEEE Industry Applications Magazine, 2021, 27, 29-36.	0.3	2
63	Get a clear view of simulated and measured data. IEEE Computer Applications in Power, 2000, 13, 36-42.	0.2	1
64	Energy optimisation of hybrid-electric vehicles The Pisa Experience. , 2006, , .		1
65	Appendix: Transmission Line Modelling and Port-Based Circuits. , 2014, , 501-514.		1
66	Energy optimization of hybrid vehicles: A general, suboptimal analysis. , 2015, , .		1
67	Experiences in creating a software tool to analyze and postprocess simulated and measured data. Software - Practice and Experience, 2018, 48, 2380-2388.	2.5	1
68	Use of electrochemical storage to enhance energy and cost efficiency of a railway node. , 2018, , .		1
69	Experimental analysis of LFP lithium cells aging. , 2020, , .		1
70	Experimental Analysis of Ni-MH High Power Cells. , 2020, , .		1
71	VPP Education in Universities: the Pisa experience. , 2006, , .		0
72	Modeling and Simulation of Hybrid drive trains with a friendly Man Machine Interface. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
73	Energy Storage System Studies for Heavy Duty Hybrid Electric Vehicles in the EC HCV Project. , 2016, , 93-107.		0
74	Optimisation of hybrid vehicles operation with ON/OFF strategy. , 2019, , .		0
75	Use of VSC-HVDC links for power system restoration. , 2019, , .		0
76	MCâ€™s PlotXYâ€™A general-purpose plotting and post-processing open-source tool. SoftwareX, 2019, 9, 282-287.	1.2	0
77	Electro-mechanical modelling and simulation of 2Ã—25 kV railway systems. , 2020, , .		0
78	Heavy-duty hybrid transportation systems: Design, modeling, and energy management. , 2022, , 313-336.		0