Massimo Ceraolo

List of Publications by Year
in descending order

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	Heavy-duty hybrid transportation systems: Design, modeling, and energy management. , 2022, , 313-336.		0
2	An Electro-Thermal Model for LFP Cells: Calibration Procedure and Validation. Energies, 2022, 15, 2653.	1.6	7
3	Experimental Evaluation of Aging Indicators for Lithiumâ€“Ironâ€“Phosphate Cells. Energies, 2021, 14, 4813.	1.6	2
4	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
5	Design and Realization of an Inductive Power Transfer for Shuttles in Automated Warehouses. Energies, 2021, 14, 5660.	1.6	5
6	Experimental analysis of LFP lithium cells aging. , 2020, , .		1
7	Experimental Analysis of Ni-MH High Power Cells. , 2020, , .		1
8	Electric Vehicles Demonstration Projects - An Overview Across Europe. , 2020, , .		15
9	Luenberger-based State-Of-Charge evaluation and experimental validation with lithium cells. Journal of Energy Storage, 2020, 30, 101534.	3.9	16
10	Hybridisation of forklift trucks. IET Electrical Systems in Transportation, 2020, 10, 116-123.	1.5	7
11	Parametric analysis of 2 Ã— 25ÂkV railway electric supply. IET Electrical Systems in Transportation, 2020, 10, 44-51.	1.5	4
12	Luenberger Observer for Lithium Battery State-of-Charge Estimation. Lecture Notes in Electrical Engineering, 2020, , 655-667.	0.3	4
13	Electro-mechanical modelling and simulation of 2Ã—25 kV railway systems. , 2020, , .		0
14	Optimisation of hybrid vehicles operation with ON/OFF strategy. , 2019, , .		0
15	Modelling and Simulation of Tramway Transportation Systems. Journal of Advanced Transportation, 2019, 2019, 1-8.	0.9	11
16	Use of Modelica language to simulate electrified railway lines and trains. Software - Practice and Experience, 2019, 49, 1114.	2.5	3
17	Model parameters evaluation for NMC cells. , 2019, , .		7
18	Use of VSC-HVDC links for power system restoration. , 2019, , .		0

#	Article	IF	Citations
19	Fuel-Cell Based Propulsion Systems for Hybrid Railcars. , 2019, , .		3
20	MCâ€™s PlotXYâ€”A general-purpose plotting and post-processing open-source tool. SoftwareX, 2019, 9, 282-287.	1.2	0
21	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
22	Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return. IEEE Transactions on Transportation Electrification, 2018, 4, 202-210.	5.3	14
23	Long duration simulations of railway AC Electrified lines. , 2018, , .		2
24	Experimental Analysis of NMC Lithium Cells Aging for Second Life Applications. , 2018, , .		6
25	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
26	Use of electrochemical storage to enhance energy and cost efficiency of a railway node. , 2018, , .		1
27	Hybridization of rubber tired gantry (RTG) cranes. Journal of Energy Storage, 2017, 12, 186-195.	3.9	30
28	State-Of-Charge Evaluation Of Supercapacitors. Journal of Energy Storage, 2017, 11, 211-218.	3.9	60
29	Full electric and hybrid series vans: Cost, performance and efficiency evaluation for different powertrain layout. , 2017, , .		3
30	Modelling 2Ã—25 kVâ€“50 Hz traction systems for power frequency studies. , 2017, , .		6
31	New approaches to simulate AC electrified railway systems. , 2017, , .		2
32	Modelling and design of improved powertrain solutions for electric and hybrid buses. IET Electrical Systems in Transportation, 2017, 7, 287-294.	1.5	3
33	Hybrid energy systems in mobility applications. , 2016, , .		4
34	Energy Storage System Studies for Heavy Duty Hybrid Electric Vehicles in the EC HCV Project. , 2016, , 93-107.		0
35	Dynamic optimisation of price arbitrage techniques. , 2016, , .		2
36	Aging evaluation of high power lithium cells subjected to micro-cycles. Journal of Energy Storage, 2016, 6, 116-124.	3.9	33

#	Article	IF	Citations
37	Regenerative braking in high speed railway applications: Analysis by different simulation tools. , 2016, , .		12
38	Modelling and simulation of electric urban transportation systems with energy storage. , 2016, , .		28
39	Evaluation of an electric turbo compound system for SI engines: A numerical approach. Applied Energy, 2016, 162, 527-540.	5.1	59
40	Energy optimization of hybrid vehicles: A general, suboptimal analysis. , 2015, , .		1
41	Systematic approach in the hybridization of a hydraulic skid loader. Automation in Construction, 2015, 58, 144-154.	4.8	25
42	Storage applications for Smartgrids. Electric Power Systems Research, 2015, 120, 109-117.	2.1	39
43	Numerical Evaluation of an Electric Turbo Compound for SI Engines. , 2014, , .		7
44	Cost effective storage for energy saving in feeding systems of tramways. , 2014, , .		9
45	Appendix: Transmission Line Modelling and Port-Based Circuits. , 2014, , 501-514.		1
46	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
47	Use of electrochemical storage in substations to enhance energy and cost efficiency of tramways. , 2013, , .		18
48	Realisation and test of a fuel-cell based vehicle. , 2012, , .		7
49	Development of a hybrid skid loader through modelling. , 2012, , .		4
50	High fidelity electrical model with thermal dependence for characterization and simulation of high power lithium battery cells. , 2012, , .		260
51	Electrification of Off-Road Vehicles: Examining the Feasibility for the Italian Market. World Electric Vehicle Journal, 2012, 5, 101-117.	1.6	3
52	Lithium-ion starting-lighting-ignition batteries: Examining the feasibility. , 2011, , .		14
53	Frequency dependent parameter model of supercapacitor. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1683-1689.	2.5	28
54	Experiences of realisation and test of a fuel-cell based vehicle. , 2010, , .		13

#	Article	IF	Citations
55	High power Lithium Batteries usage in hybrid vehicles. , 2010, , .		19
56	A General Approach to Energy Optimization of Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2008, 57, 1433-1441.	3.9	82
57	A parallel-hybrid drive-train for propulsion of a small scooter. IEEE Transactions on Power Electronics, 2006, 21, 768-778.	5.4	22
58	VPP Education in Universities: the Pisa experience. , 2006, , .		0
59	Modeling and Simulation of Hybrid drive trains with a friendly Man Machine Interface. , 2006, , .		0
60	Energy optimisation of hybrid-electric vehicles The Pisa Experience. , 2006, , .		1
61	Operation and Performance of a Small Scooter with a Parallel-hybrid Drive-train. , 2004, , .		5
62	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
63	Dynamical models of lead-acid batteries: implementation issues. IEEE Transactions on Energy Conversion, 2002, 17, 16-23.	3.7	229
64	Techniques to control the electricity generation in a series hybrid electrical vehicle. IEEE Transactions on Energy Conversion, 2002, 17, 260-266.	3.7	52
65	Techniques for estimating the residual range of an electric vehicle. IEEE Transactions on Vehicular Technology, 2001, 50, 109-115.	3.9	61
66	Get a clear view of simulated and measured data. IEEE Computer Applications in Power, 2000, 13, 36-42.	0.2	1
67	New dynamical models of lead-acid batteries. IEEE Transactions on Power Systems, 2000, 15, 1184-1190.	4.6	482
68	Use of neural networks for customer tariff exploitation by means of short-term load forecasting. Neurocomputing, 1998, 23, 135-149.	3.5	4
69	Aggregation and management of the demand in a deregulated electricity market. , 0, , .		5
70	A multifunction power supply center for experimental electric traction tests and certification. , 0, , .		2
71	CAN-LabView based Development Platform for fine-tuning Hybrid Vehicle Management Systems. , 0, , .		7
72	Microcycle-based Efficiency of Hybrid Vehicle Batteries. , 0, , .		8

#	Article	IF	Citations
73	Comparison of SC and high-power batteries for use in hybrid vehicles. , 0, , .		16
74	Experimentally-Determined Models for High-Power Lithium Batteries. , 0, , .		37
75	Battery Model Parameter Estimation Using a Layered Technique: An Example Using a Lithium Iron Phosphate Cell. , 0, , .		72
76	Simplified Extended Kalman Filter Observer for SOC Estimation of Commercial Power-Oriented LFP Lithium Battery Cells. , 0, , .		32
77	Cyber-Physical Modelling of Railroad Vehicle Systems using Modelica Simulation Language. , 0, , .		9
78	Electrical Storage for the Enhancement of Energy and Cost Efficiency of Urban Railroad Systems. , 0, , .		12