

Alessandro Serpi

List of Publications by Year in descending order

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76
papers

626
citations

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77
all docs

77
docs citations

77
times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	An online energy management tool for sizing integrated PV-BESS systems for residential prosumers. Applied Energy, 2022, 313, 118765.	5.1	23
2	Energy Management and Control System Design of an Integrated Flywheel Energy Storage System for Residential Users. Applied Sciences (Switzerland), 2021, 11, 4615.	1.3	6
3	Electromagnetic Losses Minimization in High-Speed Flywheel Energy Storage Systems. , 2021, , .		2
4	A Brief Overview on Commercial Aircraft Electrification: Limits and Future Trends. , 2021, , .		1
5	A Smart Energy Management System of a Highly-Integrated Battery-Ultracapacitor System. , 2020, , .		0
6	Designing Nearly Zero Energy Buildings: a Recommendation Tool for Optimal Sizing of Renewable Energy Source Systems. , 2020, , .		0
7	A Genetic Algorithm Approach for Sizing Integrated PV-BESS Systems for Prosumers. , 2020, , .		13
8	A Multistage Design Procedure for Planning and Implementing Public Charging Infrastructures for Electric Vehicles. Sustainability, 2020, 12, 2889.	1.6	5
9	Design and Performance Assessment of an Integrated Flywheel Energy Storage Systems based on an Inner-Rotor Large-Airgap SPM. , 2020, , .		5
10	A Hybrid Control System for LC filters that couple Energy Storage Systems with AC grids. , 2020, , .		0
11	Design criteria and methodology of a Multi-Rim Carbon-fibre Flywheel to be integrated within a Large-Airgap PMSM. , 2020, , .		3
12	Electrification of Leisure Boats: a commercial State-of-the-Art. , 2020, , .		7
13	An MPC-based Energy Management System for a Hybrid Electric Vehicle. , 2020, , .		10
14	Modelling and Design of Real-Time Energy Management Systems for Fuel Cell/Battery Electric Vehicles. Energies, 2019, 12, 4260.	1.6	14
15	The POSEIDON Project: Microgrid in Port Areas to Improve Energy Efficiency by the Integration of RES, Flexible Loads and Smart Mobility. , 2019, , .		5
16	Extensive sensitivity analysis of Implantable Cardioverter Defibrillators by an Automatic Sensing Test procedure. Measurement: Journal of the International Measurement Confederation, 2019, 134, 930-938.	2.5	1
17	Torque Harmonics Minimization of Double-Stage Magnetic Gear Transmission System. , 2019, , .		4
18	Design of flux-weakening space vector control algorithms for permanent magnet brushless DC machines on suitable synchronous reference frames. IET Electrical Systems in Transportation, 2019, 9, 215-225.	1.5	2

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19	A Multi-Stage Energy Management System for Multi-Source Hybrid Electric Vehicles. , 2019, , .		5
20	Suppression of DC-link voltage unbalance in three-level neutral-point clamped converters. Journal of the Franklin Institute, 2018, 355, 728-752.	1.9	14
21	Flux-Weakening Space Vector Control Algorithm for Permanent Magnet Brushless DC Machines. , 2018, , .		0
22	A Combined Planning and Design Approach of a Public Charging Infrastructure for Electric Vehicles. , 2018, , .		4
23	A Dual-Source DHB-NPC Power Converter for Grid Connected Split Battery Energy Storage System. , 2018, , .		3
24	A Comparative Analysis of Different Double-Stage Magnetic Gear Transmission Systems with High Gear Ratio. , 2018, , .		1
25	Batteries for Aerospace: a Brief Review. , 2018, , .		22
26	Modeling, Control and Prototyping of a Highly Integrated Battery-Ultracapacitor System for Microgrids. , 2018, , .		3
27	A Multidisciplinary Approach for the Development of Smart Distribution Networks. Energies, 2018, 11, 2530.	1.6	18
28	Dead-Time Analysis of a Universal SiC-GaN-Based DC-DC Converter for Plug-In Electric Vehicles. , 2018, , .		5
29	Design of a Double-Stage Magnetic Gear for High-Speed Electric Propulsion Systems. , 2018, , .		10
30	Integration of Sodium Metal Halides Batteries in Microgrids for Providing Active Filtering Services. , 2018, , .		0
31	A Novel Highly Integrated Hybrid Energy Storage System for Electric Propulsion and Smart Grid Applications. , 2018, , .		7
32	Design of a High-Speed Ferrite-Based Brushless DC Machine for Electric Vehicles. IEEE Transactions on Industry Applications, 2017, 53, 4279-4287.	3.3	45
33	Modelling, sizing and control of hybrid energy storage systems for electric vehicles. , 2017, , .		0
34	Design criteria for ferrite-based high-speed permanent magnet synchronous machines. , 2017, , .		10
35	An advanced frequency-based energy management of hybrid energy storage systems for microgrids. , 2017, , .		5
36	Multi-objective optimization of gate driver circuit for GaN HEMT in electric vehicles. , 2017, , .		6

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37	A Real-Time Energy Management System for Operating Cost Minimization of Fuel Cell/Battery Electric Vehicles. , 2017, , .		2
38	An Optimal Power and Energy Management by Hybrid Energy Storage Systems in Microgrids. Energies, 2017, 10, 1909.	1.6	29
39	Smart energy management of HESS-based electric propulsion systems for urban mobility. , 2016, , .		6
40	Modelling and design of PM retention sleeves for High-Speed PM Synchronous Machines. , 2016, , .		17
41	Modelling and real-time simulations of electric propulsion systems. , 2016, , .		7
42	EMC analysis of the pacing activity of an implantable cardiac medical device. , 2016, , .		0
43	A genetic algorithm for the definition of nodal load time evolutions in micro grids assessment. , 2016, , .		2
44	Efficiency assessment of permanent magnet synchronous machines for High-Speed Flywheel Energy Storage Systems. , 2016, , .		2
45	Efficiency assessment of Electric Propulsion Systems for electric vehicles. , 2016, , .		7
46	Circuital and mathematical modelling of flyback converters. , 2016, , .		5
47	Design of a High-Speed ferrite-based Brushless DC Machine for electric vehicles. , 2016, , .		3
48	Extensive losses estimation of a novel high-speed permanent magnet synchronous machine for flywheel energy storage systems. , 2016, , .		4
49	Space vector control of permanent Magnet Brushless DC Machines. , 2016, , .		2
50	A novel hybrid energy storage system for electric vehicles. , 2015, , .		10
51	Optimal management strategy of energy storage systems for RES-based microgrids. , 2015, , .		9
52	Performance improvement of brushless DC machine by zero-sequence current injection. , 2015, , .		5
53	Design and implementation of a novel model predictive control algorithm for Permanent Magnet Synchronous Machines. , 2015, , .		1
54	An Automatic Sensing Test procedure for Implantable Cardioverter Defibrillators. , 2015, , .		1

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55	A novel DC-link voltage and current control algorithm for Neutral-Point-Clamped converters. , 2014, , .		6
56	Performance analysis of PMSM for High-Speed Flywheel Energy Storage Systems in Electric and Hybrid Electric Vehicles. , 2014, , .		10
57	A flux-weakening predictive control algorithm for extended constant-power operation of surface-mounted PM machines. , 2014, , .		6
58	Electromagnetic compatibility analysis of RFID and implantable medical devices. , 2014, , .		2
59	A suitable inductor modeling for DC-DC converters. , 2014, , .		2
60	An improved DC-link voltage equalization for Three-Level Neutral-Point Clamped converters. , 2014, , .		2
61	Performance and EMC analysis of an interleaved PFC boost converter topology. , 2014, , .		2
62	Enhanced modeling of DC-DC power converters by means of averaging technique. , 2014, , .		3
63	Optimal Electric Vehicle charging strategy for energy management in microgrids. , 2014, , .		13
64	Operating Constraints Management of a Surface-Mounted PM Synchronous Machine by Means of an FPGA-Based Model Predictive Control Algorithm. IEEE Transactions on Industrial Informatics, 2014, 10, 243-255.	7.2	41
65	Real-Time Control Strategy of Energy Storage Systems for Renewable Energy Sources Exploitation. IEEE Transactions on Sustainable Energy, 2014, 5, 567-576.	5.9	60
66	Performance comparison between two-phase-on and three-phase-on operation of Brushless DC drives. , 2014, , .		8
67	EMC Characterization of Implantable Cardiac Medical Devices in an anechoic chamber. , 2014, , .		6
68	A novel flux-weakening approach for Surface-Mounted Permanent Magnet Synchronous Machines. , 2013, , .		5
69	An improved averaged model for boost DC-DC converters. , 2013, , .		7
70	A suitable PWM for DC-link voltage equalization of Three-Level Neutral-Point Clamped Converters. , 2013, , .		3
71	Discrete-Time Parameter Identification of a Surface-Mounted Permanent Magnet Synchronous Machine. IEEE Transactions on Industrial Electronics, 2013, 60, 4869-4880.	5.2	58
72	A novel continuous-time equivalent circuit for boost DC-DC converters. , 2013, , .		5

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73	A multiphase PM synchronous generator wind turbine control for internal medium voltage DC distribution system. , 2012, , .		1
74	A multi-phase PM synchronous generator torque control for direct-drive wind turbines. , 2012, , .		8
75	A vehicle to grid planning tool for weakly interconnected power systems. , 2011, , .		2
76	A Predictive Direct Torque Control of Induction Machines. , 2008, , .		3