

Jaber A Abu Qahouq

List of Publications by Year in descending order

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64
papers

1,092
citations

687363

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839539

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65
docs citations

65
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Ageing characterization data of lithium-ion battery with highly deteriorated state and wide range of state-of-health. Data in Brief, 2022, 40, 107727.	1.0	6
2	State-of-Charge Balancing of Lithium-Ion Batteries With State-of-Health Awareness Capability. IEEE Transactions on Industry Applications, 2021, 57, 673-684.	4.9	60
3	Hierarchical SOC Balancing Controller for Battery Energy Storage System. IEEE Transactions on Industrial Electronics, 2021, 68, 9386-9397.	7.9	36
4	Lithium-Ion Battery Ageing Behavior Pattern Characterization and State-of-Health Estimation Using Data-Driven Method. IEEE Access, 2021, 9, 98287-98304.	4.2	21
5	3-D Physical Model for On-chip Power Inductor Design with Evaluation of Airgap Variation Effect. , 2021, , .		3
6	High Frequency Online Battery Impedance Measurement Method Using Voltage and Current Ripples Generated by DC-DC Converter. , 2020, , .		5
7	Analysis and Evaluation of a Dual-Variable Closed-Loop Control of Power Converter With Wireless and Nonwireless Power Transfer. IEEE Transactions on Industrial Electronics, 2019, 66, 2668-2679.	7.9	23
8	Modelling and control design of reconfigurable wireless power transfer system for transmission efficiency maximisation and output voltage regulation. IET Power Electronics, 2019, 12, 1903-1916.	2.1	13
9	Adaptive and Fast State of Health Estimation Method for Lithium-ion Batteries Using Online Complex Impedance and Artificial Neural Network. , 2019, , .		24
10	Evaluation of Permanent Magnet Distribution Schemes for Toroid Power Inductor with Increased Saturation Current Using 3D Physical Models. , 2019, , .		8
11	Controller Evaluation of Wirelessly Distributed and Enabled Battery Energy Storage System under Unequal Battery Modules Capacity Values. , 2019, , .		3
12	Small-Signal Modeling and Analysis for a Wirelessly Distributed and Enabled Battery Energy Storage System of Electric Vehicles. Applied Sciences (Switzerland), 2019, 9, 4249.	2.5	11
13	Evaluation of input power splitting wireless power transfer system with multiple transmitters for efficiency maximisation. IET Power Electronics, 2019, 12, 2485-2492.	2.1	6
14	Review of Control Methods to Improve Transmission Efficiency in Inductive Wireless Power Transfer Systems. , 2019, , .		1
15	Evaluation of paralleled battery system with SOC balancing and battery impedance magnitude measurement. , 2018, , .		5
16	Evaluation of biâ€directional singleâ€inductor multiâ€input battery system with stateâ€ofâ€charge balancing control. IET Power Electronics, 2018, 11, 2140-2150.	2.1	35
17	Distributed battery system with wireless control and power transfer â€” A concept introduction. , 2018, , .		2
18	Evaluation of maximum system efficiency and maximum output power in two-coil wireless power transfer system by using modeling and experimental results. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
19	Method for online battery AC impedance spectrum measurement using dc-dc power converter duty-cycle control. , 2017, , .		14
20	Single-Perturbation-Cycle Online Battery Impedance Spectrum Measurement Method With Closed-Loop Control of Power Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 7019-7029.	7.9	88
21	A simple and upgradable autonomous battery aging evaluation and test system with capacity fading and AC impedance spectroscopy measurement. , 2017, , .		12
22	Permanent-Magnet Coupled Power Inductor for Multiphase DC-DC Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 1971-1981.	7.9	31
23	DC-DC power converter controller for SOC balancing of paralleled battery system. , 2016, , .		10
24	Modeling and design guidelines of high density power inductor for battery power unit. , 2016, , .		4
25	Extended-range two-coil adaptively reconfigurable wireless power transfer system. , 2015, , .		14
26	Elimination method for the Transmission Efficiency Valley of Death in laterally misaligned wireless power transfer systems. , 2015, , .		15
27	DCM control scheme for single-inductor multiple-output DC-DC converter with no cross-regulation. , 2015, , .		3
28	Energy Sharing Control Scheme for State-of-Charge Balancing of Distributed Battery Energy Storage System. IEEE Transactions on Industrial Electronics, 2015, 62, 2764-2776.	7.9	267
29	Load-voltage-based single-sensor MPPT controller for multi-channel PV systems. , 2014, , .		7
30	Distributed photovoltaic solar system architecture with single- μ power inductor single- μ power converter and single- μ sensor single maximum power point tracking controller. IET Power Electronics, 2014, 7, 2600-2609.	2.1	46
31	Single-output-sensor on-chip integrated MPPT for PV solar system power management. , 2014, , .		5
32	On-chip integrated cell-level power management architecture with MPPT for PV solar system. , 2014, , .		13
33	Tuning of a digital proportional-integral compensator for DC-DC power converter. , 2013, , .		5
34	PV solar system with series output connection and MPPT control. , 2013, , .		3
35	Permanent Magnet toroid power inductor with increased saturation current. , 2013, , .		16
36	Review of Carbon Nanotube-based integrated power inductor modeling and design. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	DC-DC power converter with a modified control scheme to improve load transient response. , 2012, , .		2
38	AC PV solar system distributed architecture with maximum power point tracking. , 2012, , .		19
39	Optimization of integrated power conditioning PV parameters. , 2012, , .		4
40	Load current based analog MPPT controller for PV solar systems. , 2012, , .		17
41	Linearized sensorless adaptive voltage positioning controller for DC-DC boost power converter. , 2012, , .		3
42	Evaluation of output current PV MPPT controller with different step sizes and multiple panels or cells. , 2012, , .		2
43	Evaluation and optimization of crosstalk noise in multi-core processors' power delivery system. , 2011, , .		0
44	Carbon nanotube-based power diode. , 2011, , .		0
45	Energy Efficient Fine-grained approach for Solar Photovoltaic Management System. , 2011, , .		9
46	DC-DC Power Converter with digital PID controller. , 2011, , .		15
47	Study and evaluation of load current based MPPT control for PV solar systems. , 2011, , .		9
48	Modeling and Evaluation of Carbon-Nanotube-Based Integrated Power Inductor for On-Chip Switching Power Converters. IEEE Transactions on Electron Devices, 2011, 58, 2670-2679.	3.0	14
49	Dynamic respose improvement of power converter using an adaptive frequency control law. , 2011, , .		0
50	Analysis and design of LCC resonant inverter for the tranportation systems applications. , 2010, , .		10
51	Electromagnetic Compatibility results for an LCC resonant inverter for the tranportation systems. , 2010, , .		7
52	An Adaptive Digital PID controller scheme for power converters. , 2010, , .		18
53	Design considerations and expiremantal results of an adaptive frequency controller under variable line and load conditions. , 2010, , .		0
54	Control Scheme for Sensorless Operation and Detection of CCM and DCM Operation Modes in Synchronous Switching Power Converters. IEEE Transactions on Power Electronics, 2010, 25, 2489-2495.	7.9	27

#	ARTICLE	IF	CITATIONS
55	Modeling bundled concentric MWCNTs-based embedded power inductor. , 2010, , .		2
56	Digital power controller with non-linear variable switching frequency. , 2010, , .		0
57	Digital power controller with sensorless DCM operation. , 2010, , .		0
58	Simulation and Experimental Study of Load Power Probability-Distribution-Function Effect on Platform Efficiency. , 2009, , .		0
59	N-Phase Efficiency-Based Current Sensing Auto-Tuning Controller. , 2009, , .		4
60	Control Scheme for High-Efficiency High-Performance Two-Stage Power Converters. , 2009, , .		5
61	Efficiency-Based Auto-Tuning of Current Sensing and Sharing Loops in Multiphase Converters. IEEE Transactions on Power Electronics, 2008, 23, 1009-1013.	7.9	30
62	Adaptive step-size digital controller for switching frequency auto-tuning. , 2008, , .		0
63	N-phase sensor-less current sharing digital controller. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	2
64	On Load Adaptive Control of Voltage Regulators for Power Managed Loads: Control Schemes to Improve Converter Efficiency and Performance. IEEE Transactions on Power Electronics, 2007, 22, 1806-1819.	7.9	72