

Jaber A Abu Qahouq

List of Publications by Year in descending order

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64
papers

1,092
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687363

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839539

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all docs

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docs citations

65
times ranked

903
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Distributed photovoltaic solar system architecture with single-inductor single-power converter and single-sensor single maximum power point tracking controller. IET Power Electronics, 2014, 7, 2600-2609. | 2.1 | 46 |
| 6 | Hierarchical SOC Balancing Controller for Battery Energy Storage System. IEEE Transactions on Industrial Electronics, 2021, 68, 9386-9397. | 7.9 | 36 |
| 7 | Evaluation of bi-directional single-inductor multi-input battery system with state-of-charge balancing control. IET Power Electronics, 2018, 11, 2140-2150. | 2.1 | 35 |
| 8 | Permanent-Magnet Coupled Power Inductor for Multiphase DC-DC Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 1971-1981. | 7.9 | 31 |
| 9 | 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 |
| 10 | 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 |
| 11 | Adaptive and Fast State of Health Estimation Method for Lithium-ion Batteries Using Online Complex Impedance and Artificial Neural Network. , 2019, , . | | 24 |
| 12 | 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 |
| 13 | 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 |
| 14 | AC PV solar system distributed architecture with maximum power point tracking. , 2012, , . | | 19 |
| 15 | An Adaptive Digital PID controller scheme for power converters. , 2010, , . | | 18 |
| 16 | Load current based analog MPPT controller for PV solar systems. , 2012, , . | | 17 |
| 17 | Permanent Magnet toroid power inductor with increased saturation current. , 2013, , . | | 16 |
| 18 | DC-DC Power Converter with digital PID controller. , 2011, , . | | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Elimination method for the Transmission Efficiency Valley of Death in laterally misaligned wireless power transfer systems. , 2015, , . | | 15 |
| 20 | 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 |
| 21 | Extended-range two-coil adaptively reconfigurable wireless power transfer system. , 2015, , . | | 14 |
| 22 | Method for online battery AC impedance spectrum measurement using dc-dc power converter duty-cycle control. , 2017, , . | | 14 |
| 23 | On-chip integrated cell-level power management architecture with MPPT for PV solar system. , 2014, , . | | 13 |
| 24 | 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 |
| 25 | A simple and upgradable autonomous battery aging evaluation and test system with capacity fading and AC impedance spectroscopy measurement. , 2017, , . | | 12 |
| 26 | 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 |
| 27 | Analysis and design of LCC resonant inverter for the transportation systems applications. , 2010, , . | | 10 |
| 28 | DC-DC power converter controller for SOC balancing of paralleled battery system. , 2016, , . | | 10 |
| 29 | Energy Efficient Fine-grained approach for Solar Photovoltaic Management System. , 2011, , . | | 9 |
| 30 | Study and evaluation of load current based MPPT control for PV solar systems. , 2011, , . | | 9 |
| 31 | Evaluation of Permanent Magnet Distribution Schemes for Toroid Power Inductor with Increased Saturation Current Using 3D Physical Models. , 2019, , . | | 8 |
| 32 | Electromagnetic Compatibility results for an LCC resonant inverter for the transportation systems. , 2010, , . | | 7 |
| 33 | Load-voltage-based single-sensor MPPT controller for multi-channel PV systems. , 2014, , . | | 7 |
| 34 | Evaluation of maximum system efficiency and maximum output power in two-coil wireless power transfer system by using modeling and experimental results. , 2017, , . | | 6 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Control Scheme for High-Efficiency High-Performance Two-Stage Power Converters. , 2009, , . | | 5 |
| 38 | Tuning of a digital proportional-integral compensator for DC-DC power converter. , 2013, , . | | 5 |
| 39 | Single-output-sensor on-chip integrated MPPT for PV solar system power management. , 2014, , . | | 5 |
| 40 | Evaluation of paralleled battery system with SOC balancing and battery impedance magnitude measurement. , 2018, , . | | 5 |
| 41 | High Frequency Online Battery Impedance Measurement Method Using Voltage and Current Ripples Generated by DC-DC Converter. , 2020, , . | | 5 |
| 42 | N-Phase Efficiency-Based Current Sensing Auto-Tuning Controller. , 2009, , . | | 4 |
| 43 | Optimization of integrated power conditioning PV parameters. , 2012, , . | | 4 |
| 44 | Modeling and design guidelines of high density power inductor for battery power unit. , 2016, , . | | 4 |
| 45 | Linearized sensorless adaptive voltage positioning controller for DC-DC boost power converter. , 2012, , . | | 3 |
| 46 | PV solar system with series output connection and MPPT control. , 2013, , . | | 3 |
| 47 | DCM control scheme for single-inductor multiple-output DC-DC converter with no cross-regulation. , 2015, , . | | 3 |
| 48 | Controller Evaluation of Wirelessly Distributed and Enabled Battery Energy Storage System under Unequal Battery Modules Capacity Values. , 2019, , . | | 3 |
| 49 | 3-D Physical Model for On-chip Power Inductor Design with Evaluation of Airgap Variation Effect. , 2021, , . | | 3 |
| 50 | N-phase sensor-less current sharing digital controller. Power Electronics Specialist Conference (PESC), IEEE, 2008, , . | 0.0 | 2 |
| 51 | Modeling bundled concentric MWCNTs-based embedded power inductor. , 2010, , . | | 2 |
| 52 | DC-DC power converter with a modified control scheme to improve load transient response. , 2012, , . | | 2 |
| 53 | Evaluation of output current PV MPPT controller with different step sizes and multiple panels or cells. , 2012, , . | | 2 |
| 54 | Distributed battery system with wireless control and power transfer " A concept introduction. , 2018, , . | | 2 |

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|----|---|----|-----------|
| 55 | Review of Control Methods to Improve Transmission Efficiency in Inductive Wireless Power Transfer Systems. , 2019, , . | | 1 |
| 56 | Adaptive step-size digital controller for switching frequency auto-tuning. , 2008, , . | | 0 |
| 57 | Simulation and Experimental Study of Load Power Probability-Distribution-Function Effect on Platform Efficiency. , 2009, , . | | 0 |
| 58 | Design considerations and experimental results of an adaptive frequency controller under variable line and load conditions. , 2010, , . | | 0 |
| 59 | Digital power controller with non-linear variable switching frequency. , 2010, , . | | 0 |
| 60 | Digital power controller with sensorless DCM operation. , 2010, , . | | 0 |
| 61 | Evaluation and optimization of crosstalk noise in multi-core processors' power delivery system. , 2011, , . | | 0 |
| 62 | Carbon nanotube-based power diode. , 2011, , . | | 0 |
| 63 | Dynamic response improvement of power converter using an adaptive frequency control law. , 2011, , . | | 0 |
| 64 | Review of Carbon Nanotube-based integrated power inductor modeling and design. , 2012, , . | | 0 |