

Ausias GarrigÃ³s

List of Publications by Year in descending order

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docs citations

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times ranked

893
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | LVDC SiC MOSFET Analog Electronic Fuse With Self-Adjusting Tripping Time Depending on Overcurrent Condition. IEEE Transactions on Industrial Electronics, 2022, 69, 8472-8480. | 7.9 | 8 |
| 2 | Latching Current Limiter for Space Platform Power Distribution Using a Low-Voltage p-MOSFET and a Normally-ON SiC JFET. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5464-5473. | 5.4 | 5 |
| 3 | Single Point Failure Free Interleaved Synchronous Buck Converter for Microsatellite Electrolysis Propulsion. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5371-5380. | 5.4 | 3 |
| 4 | Sequential Switching Shunt Regulator Parallel Power Processing Control for High Capacitance Solar Arrays. Energies, 2021, 14, 429. | 3.1 | 2 |
| 5 | Interleaved, Switched Inductor and High-Gain Wide Bandgap Based Boost Converter Proposal. Energies, 2021, 14, 800. | 3.1 | 6 |
| 6 | Optimized Design of 1 MHz Intermediate Bus Converter Using GaN HEMT for Aerospace Applications. Energies, 2020, 13, 6583. | 3.1 | 2 |
| 7 | SiC MOSFET vs SiC/Si Cascode short circuit robustness benchmark. Microelectronics Reliability, 2019, 100-101, 113429. | 1.7 | 7 |
| 8 | Photovoltaic-Driven SiC MOSFET Circuit Breaker with Latching and Current Limiting Capability. Energies, 2019, 12, 4585. | 3.1 | 3 |
| 9 | Circuit proposals for high-voltage latching current limiters. , 2019, , . | | 5 |
| 10 | Interleaved, switched-inductor, multi-phase, multi-device DC/DC boost converter for non-isolated and high conversion ratio fuel cell applications. International Journal of Hydrogen Energy, 2019, 44, 12783-12792. | 7.1 | 24 |
| 11 | Self-Powered 380 V DC SiC Solid-State Circuit Breaker and Fault Current Limiter. IEEE Transactions on Power Electronics, 2019, 34, 9600-9608. | 7.9 | 41 |
| 12 | System-on-Chip for Real-Time Satellite Photovoltaic Curves Telemetry. IEEE Transactions on Industrial Informatics, 2018, 14, 951-957. | 11.3 | 6 |
| 13 | Bidirectional, Interleaved, Multiphase, Multidevice, Soft-Switching, FPGA-Controlled, Buck"Boost Converter With PWM Real-Time Reconfiguration. IEEE Transactions on Power Electronics, 2018, 33, 9710-9721. | 7.9 | 18 |
| 14 | SiC Based Latching Current Limiter for High Voltage Space Power Distribution Systems. , 2018, , . | | 1 |
| 15 | SiC Based SSPC for High Voltage Space Applications. , 2018, , . | | 3 |
| 16 | Guest Editorial Emerging Electric Machines and Drives for Smart Energy Conversion. IEEE Transactions on Energy Conversion, 2018, 33, 1931-1933. | 5.2 | 4 |
| 17 | Analog isolated electronic dynamometer based on a magnetoresistive current sensor. Review of Scientific Instruments, 2017, 88, 035102. | 1.3 | 0 |
| 18 | Silicon Carbide and Magnetoresistive Technologies for Solid State Power Controllers. E3S Web of Conferences, 2017, 16, 12004. | 0.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Designing Arduino electronic shields: Experiences from secondary and university courses. , 2017, , . | | 16 |
| 20 | A generic FPGA-based PWM generator with automatic device fault recovery for fuel cell, interleaved, multi-phase and multi-switch DC/DC boost converters. International Journal of Hydrogen Energy, 2017, 42, 13876-13888. | 7.1 | 6 |
| 21 | Benefits and Drawbacks of A High Frequency Gan Zvcps Converter. E3S Web of Conferences, 2017, 16, 14006. | 0.5 | 1 |
| 22 | Interleaved, Multi-Switch, Multi-Phase Boost Converter For Battery Discharge Regulators. E3S Web of Conferences, 2017, 16, 14010. | 0.5 | 2 |
| 23 | PV parameter identification using reduced I-V data. , 2017, , . | | 4 |
| 24 | SiC based solid state protections switches for space applications. , 2017, , . | | 1 |
| 25 | An Analog Global Maximum Power Point Tracking for photovoltaic systems: Application to nanospacecrafts. , 2017, , . | | 2 |
| 26 | Comparative Study of SiC Transistors for Active Current Limitation in S3R. Elektronika Ir Elektrotechnika, 2017, 23, . | 0.8 | 1 |
| 27 | Evaluation of Gallium Nitride Transistors in Electronic Power Conditioners for TWTAs. , 2015, , . | | 2 |
| 28 | Investigation into the potential use of integrated switching regulators for low-voltage, low-power photovoltaic conversion in space applications. , 2015, , . | | 0 |
| 29 | An interleaved, FPGA-controlled, multi-phase and multi-switch synchronous boost converter for fuel cell applications. International Journal of Hydrogen Energy, 2015, 40, 12447-12456. | 7.1 | 15 |
| 30 | Interleaved multi-phase and multi-switch boost converter for fuel cell applications. International Journal of Hydrogen Energy, 2015, 40, 8419-8432. | 7.1 | 27 |
| 31 | Combined maximum power point tracking and output current control for a photovoltaic-electrolyser DC/DC converter. International Journal of Hydrogen Energy, 2014, 39, 20907-20919. | 7.1 | 29 |
| 32 | Isolated two-stage passive PFC rectifier for the Radioisotope Stirling Generator. , 2013, , . | | 0 |
| 33 | Electric Vehicle Battery Life Extension Using Ultracapacitors and an FPGA Controlled Interleaved Buck-Boost Converter. IEEE Transactions on Power Electronics, 2013, 28, 5940-5948. | 7.9 | 168 |
| 34 | In-Site Real-Time Photovoltaic I-V Curves and Maximum Power Point Estimator. IEEE Transactions on Power Electronics, 2013, 28, 1234-1240. | 7.9 | 77 |
| 35 | On the design of a multiple-output DC/DC converter for the PHI experiment on-board of solar orbiter. , 2013, , . | | 3 |
| 36 | Hydrogen back-up power system with photovoltaic direct energy transfer regulation and interleaved boost for space applications. , 2012, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Design of a power conditioning unit for a Stirling generator in space applications. , 2012, , . | | 2 |
| 38 | Analytical resolution of the electrical four-parameters model of a photovoltaic module using small perturbation around the operating point. Renewable Energy, 2012, 43, 83-89. | 8.9 | 36 |
| 39 | High-Efficiency Regulation Method for a Zero-Current and Zero-Voltage Current-Fed Push-Pull Converter. IEEE Transactions on Power Electronics, 2011, 26, 444-452. | 7.9 | 34 |
| 40 | Two-Stage MPPT Power Regulator for Satellite Electrical Propulsion System. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1617-1630. | 4.7 | 9 |
| 41 | Bidirectional High-Efficiency Nonisolated Step-Up Battery Regulator. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2230-2239. | 4.7 | 24 |
| 42 | Non-isolated multiphase boost converter for a fuel cell with battery backup power system. International Journal of Hydrogen Energy, 2011, 36, 6259-6268. | 7.1 | 20 |
| 43 | 5 kW DC/DC converter for hydrogen generation from photovoltaic sources. International Journal of Hydrogen Energy, 2010, 35, 6123-6130. | 7.1 | 33 |
| 44 | Direct coupling photovoltaic power regulator for stand-alone power systems with hydrogen generation. International Journal of Hydrogen Energy, 2010, 35, 10127-10137. | 7.1 | 14 |
| 45 | High-Power Battery Discharge Regulator for Space Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3935-3943. | 7.9 | 20 |
| 46 | Phase Margin Degradation of a Peak Current Controlled Converter at Reduced Duty Cycle. IEEE Transactions on Power Electronics, 2010, 25, 863-874. | 7.9 | 8 |
| 47 | Optimized topology for high efficiency battery discharge regulator. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 1511-1521. | 4.7 | 16 |
| 48 | The Sequential Switching Shunt Maximum Power Regulator and its Application in the Electric Propulsion System of a Spacecraft. , 2007, , . | | 16 |
| 49 | New High Power / High Voltage Battery-Free Bus for Electrical Propulsion in Satellites. , 2007, , . | | 10 |
| 50 | New Power Conditioning System for Battery-free Satellite Buses with Maximum Power Point Tracking. IEEE Applied Power Electronics Conference and Exposition, 2007, , . | 0.0 | 6 |
| 51 | Real time estimation of photovoltaic modules characteristics and its application to maximum power point operation. Renewable Energy, 2007, 32, 1059-1076. | 8.9 | 65 |
| 52 | A new Sequential Switching Shunt Regulator Digital Shunt Regulator (S3R-DSR) for Solar Array Regulators. , 2006, , . | | 16 |
| 53 | Modeling the Sequential Switching Shunt Series Regulator. IEEE Power Electronics Letters, 2005, 3, 7-13. | 0.7 | 37 |
| 54 | Thin-film silicon detectors for particle detection. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1284-1291. | 0.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Characterization of 13 and 30 ¹ / ₄ m thick hydrogenated amorphous silicon diodes deposited over CMOS integrated circuits for particle detection application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 357-361. | 1.6 | 13 |
| 56 | A novel low noise hydrogenated amorphous silicon pixel detector. Journal of Non-Crystalline Solids, 2004, 338-340, 729-731. | 3.1 | 12 |
| 57 | High power passive soft switched interleaved boost converters. , 0, , . | | 12 |
| 58 | System model of the sequential switching shunt series regulator for spacecraft regulated high power busses. , 0, , . | | 8 |
| 59 | Bidirectional Coupled Inductors Step-up Converter for Battery Discharging-Charging. , 0, , . | | 12 |
| 60 | Soft Switching Bidirectional Converter for Battery Discharging-Charging. , 0, , . | | 27 |
| 61 | A Power Conditioning Unit for High Power GEO Satellites based on the Sequential Switching Shunt Series Regulator. , 0, , . | | 15 |
| 62 | Influence of the Parasitic Solar Array Capacitance in the Sequential Switching Shunt Series Regulator. , 0, , . | | 17 |
| 63 | Control loop design of the Sequential Switching Shunt Series Regulator. , 0, , . | | 9 |
| 64 | Bidirectional High-Power High-Efficiency non-isolated step-up DC-DC Converter. , 0, , . | | 8 |