

Andoni Urtasun

List of Publications by Year in descending order

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33
papers

733
citations

687363

13
h-index

839539

18
g-index

33
all docs

33
docs citations

33
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of small wind turbines based on PMSG with diode bridge for sensorless maximum power tracking. <i>Renewable Energy</i> , 2013, 55, 138-149.	8.9	94
2	Adaptive Voltage Control of the DC/DC Boost Stage in PV Converters With Small Input Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2013, 28, 5038-5048.	7.9	88
3	A comprehensive model for lithium-ion batteries: From the physical principles to an electrical model. <i>Energy</i> , 2018, 144, 286-300.	8.8	78
4	Frequency-Based Energy-Management Strategy for Stand-Alone Systems With Distributed Battery Storage. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 4794-4808.	7.9	56
5	High-Frequency Power Transformers With Foil Windings: Maximum Interleaving and Optimal Design. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 5712-5723.	7.9	53
6	Limiting the power generated by a photovoltaic system. , 2013, , .		42
7	Small Wind Turbine Sensorless MPPT: Robustness Analysis and Lossless Approach. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 4113-4121.	4.9	42
8	Control of a Single-Switch Two-Input Buck Converter for MPPT of Two PV Strings. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 7051-7060.	7.9	42
9	State-of-charge-based droop control for stand-alone AC supply systems with distributed energy storage. <i>Energy Conversion and Management</i> , 2015, 106, 709-720.	9.2	42
10	Energy management strategy for a battery-diesel stand-alone system with distributed PV generation based on grid frequency modulation. <i>Renewable Energy</i> , 2014, 66, 325-336.	8.9	40
11	Robust multisampled capacitor voltage active damping for grid-connected power converters. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 105, 741-752.	5.5	31
12	Control Design and Stability Analysis of Power Converters: The MIMO Generalized Bode Criterion. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 1880-1893.	5.4	25
13	On the Stability of Advanced Power Electronic Converters: The Generalized Bode Criterion. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 9247-9262.	7.9	21
14	Control of a Photovoltaic Array Interfacing Current-Mode-Controlled Boost Converter Based on Virtual Impedance Emulation. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3496-3506.	7.9	16
15	Parameter-Independent Control for Battery Chargers Based on Virtual Impedance Emulation. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 8848-8858.	7.9	12
16	Dual Voltageâ€“Current Control to Provide Grid-Forming Inverters With Current Limiting Capability. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022, 10, 3950-3962.	5.4	10
17	Optimal DC gapped inductor design including high-frequency effects. , 2015, , .		7
18	DC Capacitance Reduction in Three-Phase Photovoltaic Inverters by using Virtual Impedance Emulation. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	Small Wind turbines sensorless MPPT: Robustness analysis and lossless approach. , 2013, , .		4
20	Comparison of linear and small-signal models for inverter-based microgrids. , 2014, , .		4
21	Power Angleâ€™Frequency Droop Control to Enhance Transient Stability of Gridâ€™Forming Inverters under Voltage Dips. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, , 1-1.	5.4	4
22	Dual-Mode Soft-Transition Control for Single-Phase Grid-Connected Photovoltaic Inverters. , 2018, , .		3
23	Control Design and Stability Analysis of Power Converters: The Discrete Generalized Bode Criterion. IEEE Access, 2021, 9, 37840-37854.	4.2	3
24	Parameter-Independent Battery Control Based on Series and Parallel Impedance Emulation. IEEE Access, 2019, 7, 70021-70031.	4.2	2
25	DC Capacitance Reduction in Photovoltaic Inverters based on PV Voltage Feed-Forward Compensation. , 2021, , .		2
26	RMS voltage control with harmonic compensation for parallel-connected inverters feeding non-linear loads. , 2014, , .		1
27	Frequency-based energy management of stand-alone systems: Design of the control parameters for high versatility. , 2015, , .		1
28	Control of a photovoltaic array interfacing current mode controlled boost converter based on virtual resistance emulation. , 2016, , .		1
29	Control strategy for an integrated photovoltaic-battery system. , 2017, , .		1
30	Effect of the Inner Current Loop on the Voltage Regulation for Three-Phase Photovoltaic Inverters. , 2020, , .		1
31	Control of a single-switch two-input buck converter for MPPT of two PV strings. , 2014, , .		0
32	Energy Management of AC-Isolated Microgrids Based on Distributed Storage Systems and Renewable Energy Sources. Green Energy and Technology, 2017, , 327-379.	0.6	0
33	Design of Virtual Inductor Emulation for Soft Transition from Islanded Mode to Grid-Connected Operation. , 2018, , .		0