Luis Garcia De Vicuna

List of Publications by Year
in descending order

38 papers	4,509 citations	236833 25 h-index	434063 31 g-index
38 all docs	38 docs citations	38 times ranked	3415 citing authors

#	Article	IF	Citations
1	Optimal Voltage-Support Control for Distributed Generation Inverters in RL Grid-Faulty Networks. IEEE Transactions on Industrial Electronics, 2020, 67, 8405-8415.	5.2	32
2	Imbalance-Voltage Mitigation in an Inverter-Based Distributed Generation System Using a Minimum Current-Based Control Strategy. IEEE Transactions on Power Delivery, 2020, 35, 1399-1409.	2.9	15
3	Control of Power Converters in AC Microgrids. , 2019, , 139-170.		9
4	Robust and fast slidingâ€mode control for a DCâ€“DC currentâ€source parallelâ€resonant converter. IET Power Electronics, 2018, 11, 262-271.	1.5	9
5	Modeling and Sliding Mode Control for Three-Phase Active Power Filters Using the Vector Operation Technique. IEEE Transactions on Industrial Electronics, 2018, 65, 6828-6838.	5.2	57
6	Variable Structure Control for Three-Phase LCL-Filtered Inverters Using a Reduced Converter Model. IEEE Transactions on Industrial Electronics, 2018, 65, 5-15.	5.2	67
7	Variable Structure Control in Natural Frame for Three-Phase Grid-Connected Inverters With LCL Filter. IEEE Transactions on Power Electronics, 2018, 33, 4512-4522.	5.4	43
8	Voltage Support Experimental Analysis of a Low-Voltage Ride-Through Strategy Applied to Grid-Connected Distributed Inverters. Energies, 2018, 11, 1949.	1.6	6
9	Frequency-Modulation Control of a DC/DC Current-Source Parallel-Resonant Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 5392-5402.	5.2	29
10	Model-Based Active Damping Control for Three-Phase Voltage Source Inverters With LCL Filter. IEEE Transactions on Power Electronics, 2017, 32, 5637-5650.	5.4	67
11	Finite Control Set Model Predictive Control for a Three-Phase Shunt Active Power Filter with a Kalman Filter-Based Estimation. Energies, 2017, 10, 1553.	1.6	11
12	Non-linear control of a power-factor-correction rectifier with fast dynamic response. , 2016, , .		1
13	Model-Based Control for a Three-Phase Shunt Active Power Filter. IEEE Transactions on Industrial Electronics, 2016, 63, 3998-4007.	5.2	70
14	Sliding-Mode Control for a Three-Phase Unity Power Factor Rectifier Operating at Fixed Switching Frequency. IEEE Transactions on Power Electronics, 2016, 31, 758-769.	5.4	67
15	Sliding mode control for three-phase unity power factor rectifier with vector operation. , 2015, , .		3
16	Active and Reactive Power Strategies With Peak Current Limitation for Distributed Generation Inverters During Unbalanced Grid Faults. IEEE Transactions on Industrial Electronics, 2015, 62, 1515-1525.	5.2	240
17	Modeling and Design of Voltage Support Control Schemes for Three-Phase Inverters Operating Under Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2014, 29, 6139-6150.	5.4	45
18	An Adaptive Prefiltering Method to Improve the Speed/Accuracy Tradeoff of Voltage Sequence Detection Methods Under Adverse Grid Conditions. IEEE Transactions on Industrial Electronics, 2014, 61, 2139-2151.	5.2	203

#	Article	IF	Citations
19	Active damping control for a three phase grid-connected inverter using sliding mode control. , 2013, , .		15
20	Control Scheme With Voltage Support Capability for Distributed Generation Inverters Under Voltage Sags. IEEE Transactions on Power Electronics, 2013, 28, 5252-5262.	5.4	140
21	Control Design for Multiphase Synchronous Buck Converters Based on Exact Constant Resistive Output Impedance. IEEE Transactions on Industrial Electronics, 2013, 60, 4920-4929.	5.2	20
22	Sliding-Mode Inputâ€“Output Linearization Controller for the DC/DC ZVS CLL-T Resonant Converter. IEEE Transactions on Industrial Electronics, 2012, 59, 1554-1564.	5.2	24
23	Control Scheme for Photovoltaic Three-Phase Inverters to Minimize Peak Currents During Unbalanced Grid-Voltage Sags. IEEE Transactions on Power Electronics, 2012, 27, 4262-4271.	5.4	210
24	Decoupled sliding mode control for three-phase LCL VSI operating at fixed switching frequency. , 2012, , .		5
25	Reactive power control for voltage support during type C voltage-sags. , 2012, , .		8
26	Hierarchical Control of Intelligent Microgrids. IEEE Industrial Electronics Magazine, 2010, 4, 23-29.	2.3	370
27	Virtual Impedance Loop for Droop-Controlled Single-Phase Parallel Inverters Using a Second-Order General-Integrator Scheme. IEEE Transactions on Power Electronics, 2010, 25, 2993-3002.	5.4	225
28	Grid-Fault Control Scheme for Three-Phase Photovoltaic Inverters With Adjustable Power Quality Characteristics. IEEE Transactions on Power Electronics, 2010, 25, 2930-2940.	5.4	165
29	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 726-736.	5.2	680
30	Control Design Guidelines for Single-Phase Grid-Connected Photovoltaic Inverters With Damped Resonant Harmonic Compensators. IEEE Transactions on Industrial Electronics, 2009, 56, 4492-4501.	5.2	235
31	Modeling and Performance Analysis of the DC/DC Seriesâ€“Parallel Resonant Converter Operating With Discrete Self-Sustained Phase-Shift Modulation Technique. IEEE Transactions on Industrial Electronics, 2009, 56, 697-705.	5.2	42
32	Feedback Linearization of a Single-Phase Active Power Filter via Sliding Mode Control. IEEE Transactions on Power Electronics, 2008, 23, 116-125.	5.4	160
33	Linear Current Control Scheme With Series Resonant Harmonic Compensator for Single-Phase Grid-Connected Photovoltaic Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 2724-2733.	5.2	151
34	Parallel operation of uninterruptible power supply systems in microgrids. , 2007, , .		15
35	Designing VRM Hysteretic Controllers for Optimal Transient Response. IEEE Transactions on Industrial Electronics, 2007, 54, 1726-1738.	5.2	54
36	Decentralized Control for Parallel Operation of Distributed Generation Inverters Using Resistive Output Impedance. IEEE Transactions on Industrial Electronics, 2007, 54, 994-1004.	5.2	917

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37	Simple Low-Cost Hysteretic Controller for Single-Phase Synchronous Buck Converters. IEEE Transactions on Power Electronics, 2007, 22, 1232-1241.	5.4	56
38	Sliding-mode control of quantum series-parallel resonant converters via input-output linearization. IEEE Transactions on Industrial Electronics, 2005, 52, 566-575.	5.2	43