Josep M Guerrero

List of Publications by Citations

783 papers	40,194 citations	94 h-index	178 g-index
810 ext. papers	52,290 ext. citations	5.9 avg, IF	8.32 L-index

#	Paper	IF	Citations
783	. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 158-172	8.9	2688
782	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1254-1262	8.9	1142
781	A Review of the State of the Art of Power Electronics for Wind Turbines. *IEEE Transactions on Power Electronics*, **2009**, 24, 1859-1875	7.2	851
780	Decentralized Control for Parallel Operation of Distributed Generation Inverters Using Resistive Output Impedance. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 994-1004	8.9	690
779	Distributed Secondary Control for Islanded Microgrids A Novel Approach. *IEEE Transactions on Power Electronics*, **2014**, 29, 1018-1031	7.2	641
778	. *IEEE Transactions on Power Electronics*, **2016**, 31, 3528-3549	7.2	605
777	An Improved Droop Control Method for DC Microgrids Based on Low Bandwidth Communication With DC Bus Voltage Restoration and Enhanced Current Sharing Accuracy. *IEEE Transactions on Power Electronics*, **2014**, 29, 1800-1812	7.2	582
776	Advanced Control Architectures for Intelligent Microgrids Part II: Power Quality, Energy Storage, and AC/DC Microgrids. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1263-1270	8.9	551
775	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 7025-7038	8.9	518
774	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 726-736	8.9	513
773	Design and Analysis of the Droop Control Method for Parallel Inverters Considering the Impact of the Complex Impedance on the Power Sharing. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 576-588	8.9	507
772	. *IEEE Transactions on Smart Grid*, **2016**, 7, 200-215	10.7	496
771	Supervisory Control of an Adaptive-Droop Regulated DC Microgrid With Battery Management Capability. *IEEE Transactions on Power Electronics*, **2014**, 29, 695-706	7.2	477
770	. *IEEE Transactions on Power Systems*, **2013**, 28, 3462-3470	7	473
769	. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 2804-2815	8.9	430
768	Control of Distributed Uninterruptible Power Supply Systems. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 2845-2859	8.9	419
767	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1271-1280	8.9	401

766	Adaptive Droop Control Applied to Voltage-Source Inverters Operating in Grid-Connected and Islanded Modes. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4088-4096	8.9	370
765	. *IEEE Transactions on Power Electronics*, **2017**, 32, 1894-1907	7.2	364
764	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2427-2451	7.2	364
763	Mode Adaptive Droop Control With Virtual Output Impedances for an Inverter-Based Flexible AC Microgrid. *IEEE Transactions on Power Electronics*, **2011**, 26, 689-701	7.2	339
762	An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme. *IEEE Transactions on Power Electronics*, **2013**, 28, 5272-5282	7.2	322
761	. *IEEE Transactions on Smart Grid*, **2012**, 3, 797-807	10.7	321
760	. *IEEE Transactions on Power Electronics*, **2014**, 29, 2750-2763	7.2	318
759	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5458-5471	8.9	292
758	Distributed Generation: Toward a New Energy Paradigm. *IEEE Industrial Electronics Magazine*, **2010**, 4, 52-64	6.2	279
757	Hierarchical Control of Intelligent Microgrids. *IEEE Industrial Electronics Magazine*, **2010**, 4, 23-29	6.2	275
756	. *IEEE Transactions on Smart Grid*, **2015**, 6, 3006-3019	10.7	265
755	. *IEEE Transactions on Energy Conversion*, **2014**, 29, 944-956	5.4	263
754	. *IEEE Transactions on Smart Grid*, **2012**, 3, 1893-1902	10.7	253
753	. *IEEE Transactions on Smart Grid*, **2014**, 5, 683-692	10.7	252
752	. *IEEE Transactions on Energy Conversion*, **2014**, 29, 922-933	5.4	235
751	Optimal Power Flow in Microgrids With Energy Storage. *IEEE Transactions on Power Systems*, **2013**, 28, 3226-3234	7	230
750	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1390-1402	8.9	222
749	Dynamics Assessment of Advanced Single-Phase PLL Structures. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 2167-2177	8.9	220

748	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4510-4519	8.9	215
747	Computational optimization techniques applied to microgrids planning: A review. *Renewable and Sustainable Energy Reviews*, **2015**, 48, 413-424	16.2	212
746	Microgrid supervisory controllers and energy management systems: A literature review. *Renewable and Sustainable Energy Reviews*, **2016**, 60, 1263-1273	16.2	211
745	A survey on control of electric power distributed generation systems for microgrid applications. *Renewable and Sustainable Energy Reviews*, **2015**, 44, 751-766	16.2	207
744	Microgrids: Experiences, barriers and success factors. *Renewable and Sustainable Energy Reviews*, **2014**, 40, 659-672	16.2	203
743	Double-Quadrant State-of-Charge-Based Droop Control Method for Distributed Energy Storage Systems in Autonomous DC Microgrids. *IEEE Transactions on Smart Grid*, **2015**, 6, 147-157	10.7	198
742	. *IEEE Transactions on Power Electronics*, **2016**, 31, 3932-3944	7.2	196
741	Microgrids in active network management—Part I: Hierarchical control, energy storage, virtual power plants, and market participation. *Renewable and Sustainable Energy Reviews*, **2014**, 36, 428-439	16.2	195
740	. *IEEE Transactions on Smart Grid*, **2016**, 7, 1430-1441	10.7	188
739	. *IEEE Transactions on Power Electronics*, **2016**, 31, 1600-1617	7.2	187
738	. *IEEE Transactions on Smart Grid*, **2014**, 5, 2476-2485	10.7	185
737	. *IEEE Transactions on Smart Grid*, **2015**, 6, 2770-2783	10.7	176
736	Next-Generation Shipboard DC Power System: Introduction Smart Grid and dc Microgrid Technologies into Maritime Electrical Netowrks. *IEEE Electrification Magazine*, **2016**, 4, 45-57	2.6	176
735	Single-Phase PLLs: A Review of Recent Advances. *IEEE Transactions on Power Electronics*, **2017**, 32, 9013-9030	7.2	174
734	. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 448-460	11.9	173
733	. *IEEE Transactions on Power Electronics*, **2015**, 30, 3133-3141	7.2	172
732	Autonomous Active Power Control for Islanded AC Microgrids With Photovoltaic Generation and Energy Storage System. *IEEE Transactions on Energy Conversion*, **2014**, 29, 882-892	5.4	172
731	Control Design Guidelines for Single-Phase Grid-Connected Photovoltaic Inverters With Damped Resonant Harmonic Compensators. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4492-4501	8.9	171

730	. *IEEE Transactions on Power Electronics*, **2018**, 33, 6488-6508	7.2	171
729	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 5363-5374	8.9	168
728	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. *IEEE Industrial Electronics Magazine*, **2013**, 7, 42-55	6.2	161
727	A multi-agent based energy management solution for integrated buildings and microgrid system. *Applied Energy*, **2017**, 203, 41-56	10.7	161
726	dq-Frame Cascaded Delayed Signal Cancellation- Based PLL: Analysis, Design, and Comparison With Moving Average Filter-Based PLL. *IEEE Transactions on Power Electronics*, **2015**, 30, 1618-1632	7.2	159
725	Distributed Control of Battery Energy Storage Systems for Voltage Regulation in Distribution Networks With High PV Penetration. *IEEE Transactions on Smart Grid*, **2018**, 9, 3582-3593	10.7	158
724	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2769-2783	7.2	156
723	Reactive Power Sharing and Voltage Harmonic Distortion Compensation of Droop Controlled Single Phase Islanded Microgrids. *IEEE Transactions on Smart Grid*, **2014**, 5, 1149-1158	10.7	156
722	Review on Control of DC Microgrids and Multiple Microgrid Clusters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 1-1	5.6	154
721	Smart transactive energy framework in grid-connected multiple home microgrids under independent and coalition operations. *Renewable Energy*, **2018**, 126, 95-106	8.1	153
720	. *IEEE Systems Journal*, **2017**, 11, 1712-1722	4.3	148
719	Dynamic Phasors-Based Modeling and Stability Analysis of Droop-Controlled Inverters for Microgrid Applications. *IEEE Transactions on Smart Grid*, **2014**, 5, 2980-2987	10.7	147
718	Analysis, Design, and Experimental Verification of a Synchronous Reference Frame Voltage Control for Single-Phase Inverters. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 258-269	8.9	145
717	. *IEEE Transactions on Smart Grid*, **2015**, 6, 1156-1166	10.7	142
716	. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 5741-5745	8.9	139
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714	Small-Signal Analysis of the Microgrid Secondary Control Considering a Communication Time Delay. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6257-6269	8.9	131
713	. *IEEE Transactions on Smart Grid*, **2016**, 7, 1504-1515	10.7	123

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710	Feedback Linearization of a Single-Phase Active Power Filter via Sliding Mode Control. *IEEE Transactions on Power Electronics*, **2008**, 23, 116-125	7.2	118
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707	A Distributed Control Strategy for Coordination of an Autonomous LVDC Microgrid Based on Power-Line Signaling. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 3313-3326	8.9	116
706	A Virtual Inertia Control Strategy for DC Microgrids Analogized With Virtual Synchronous Machines. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 6005-6016	8.9	114
705	. *IEEE Transactions on Power Electronics*, **2016**, 31, 827-838	7.2	113
704	. *IEEE Transactions on Power Electronics*, **2017**, 32, 5202-5213	7.2	113
703	. *IEEE Transactions on Smart Grid*, **2015**, 6, 2627-2638	10.7	112
702	Intelligent DC Homes in Future Sustainable Energy Systems: When efficiency and intelligence work together. *IEEE Consumer Electronics Magazine*, **2016**, 5, 74-80	3.2	110
701	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	8.9	110
700	Line-Interactive UPS for Microgrids. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 1292-1300	8.9	109
699	. *IEEE Transactions on Energy Conversion*, **2016**, 31, 637-648	5.4	104
698	. *IEEE Access*, **2020**, 8, 19410-19432	3.5	101
697	. *IEEE Transactions on Power Electronics*, **2015**, 30, 5964-5977	7.2	99
696	PLL With MAF-Based Prefiltering Stage: Small-Signal Modeling and Performance Enhancement. *IEEE Transactions on Power Electronics*, **2016**, 31, 4013-4019	7.2	97
695	Virtual Flux Droop Method—A New Control Strategy of Inverters in Microgrids. *IEEE Transactions on Power Electronics*, **2014**, 29, 4704-4711	7.2	97

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690	. *IEEE Transactions on Smart Grid*, **2017**, 8, 2370-2381	10.7	94
689	. *IEEE Transactions on Smart Grid*, **2017**, 8, 2754-2764	10.7	94
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687	Distributed Noise-Resilient Secondary Voltage and Frequency Control for Islanded Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 3780-3790	10.7	94
686	. *IEEE Transactions on Power Delivery*, **2012**, 27, 2318-2325	4.3	94
685	A Review of Power Electronics Based Microgrids. *Journal of Power Electronics*, **2012**, 12, 181-192	0.9	93
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683	. *IEEE Transactions on Power Electronics*, **2020**, 35, 6482-6500	7.2	92
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677	A Quasi-Type-1 Phase-Locked Loop Structure. *IEEE Transactions on Power Electronics*, **2014**, 29, 6264-6270	7.2	88

676	A Consensus-Based Cooperative Control of PEV Battery and PV Active Power Curtailment for Voltage Regulation in Distribution Networks. *IEEE Transactions on Smart Grid*, **2019**, 10, 670-680	10.7	88
675	Single-Phase Microgrid With Seamless Transition Capabilities Between Modes of Operation. *IEEE Transactions on Smart Grid*, **2015**, 6, 2736-2745	10.7	87
674	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4344-4354	8.9	86
673	DC Microgrid Protection: A Comprehensive Review. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 1-1	5.6	84
672	Model Predictive Control of Bidirectional DCDC Converters and AC/DC Interlinking Converters A New Control Method for PV-Wind-Battery Microgrids. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 1823-1833	8.2	84
671	Modeling, Tuning, and Performance Comparison of Second-Order-Generalized-Integrator-Based FLLs. *IEEE Transactions on Power Electronics*, **2018**, 33, 10229-10239	7.2	83
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666	. *IEEE Transactions on Smart Grid*, **2018**, 9, 3247-3258	10.7	81
665	Efficient energy management for a grid-tied residential microgrid. *IET Generation, Transmission and Distribution*, **2017**, 11, 2752-2761	2.5	80
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659	A Decentralized Scalable Approach to Voltage Control of DC Islanded Microgrids. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 1965-1979	4.8	78

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656	Intelligent Connection Agent for Three-Phase Grid-Connected Microgrids. *IEEE Transactions on Power Electronics*, **2011**, 26, 2993-3005	7.2	75
655	A hierarchical energy management strategy for interconnected microgrids considering uncertainty. *International Journal of Electrical Power and Energy Systems*, **2019**, 109, 597-608	5.1	74
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629	Voltage Quality Improvement in Low Voltage Distribution Networks Using Reactive Power Capability of Single-Phase PV Inverters. *IEEE Transactions on Smart Grid*, **2019**, 10, 5057-5065	10.7	61
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