Josep Guerrero

List of Publications by Citations

1,344 papers	51,657 citations	100 h-index	193 g-index
1,473 ext. papers	67,733 ext. citations	5.6 avg, IF	8.63 L-index

#	Paper	IF	Citations
1344	. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 158-172	8.9	2688
1343	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1254-1262	8.9	1142
1342	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
1341	. *IEEE Transactions on Industrial Electronics*, **2005**, 52, 1126-1135	8.9	747
1340	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
1339	Distributed Secondary Control for Islanded MicrogridsA Novel Approach. *IEEE Transactions on Power Electronics*, **2014**, 29, 1018-1031	7.2	641
1338	A wireless controller to enhance dynamic performance of parallel inverters in distributed generation systems. *IEEE Transactions on Power Electronics*, **2004**, 19, 1205-1213	7.2	641
1337	. *IEEE Transactions on Power Electronics*, **2016**, 31, 3528-3549	7.2	605
1336	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
1335	Advanced Control Architectures for Intelligent MicrogridsPart II: Power Quality, Energy Storage, and AC/DC Microgrids. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1263-1270	8.9	551
1334	Microgrids: A review of technologies, key drivers, and outstanding issues. *Renewable and Sustainable Energy Reviews*, **2018**, 90, 402-411	16.2	550
1333	. *IEEE Transactions on Power Electronics*, **2013**, 28, 1900-1913	7.2	532
1332	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 7025-7038	8.9	518
1331	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 726-736	8.9	513
1330	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
1329	. *IEEE Transactions on Smart Grid*, **2016**, 7, 200-215	10.7	496
1328	. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	488

1327	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
1326	. *IEEE Transactions on Power Systems*, **2013**, 28, 3462-3470	7	473
1325	. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 2804-2815	8.9	430
1324	Wireless-Control Strategy for Parallel Operation of Distributed-Generation Inverters. *IEEE Transactions on Industrial Electronics*, **2006**, 53, 1461-1470	8.9	430
1323	Control of Distributed Uninterruptible Power Supply Systems. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 2845-2859	8.9	419
1322	A Novel Improved Variable Step-Size Incremental-Resistance MPPT Method for PV Systems. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 2427-2434	8.9	404
1321	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1271-1280	8.9	401
1320	. *IEEE Transactions on Power Electronics*, **2011**, 26, 3032-3045	7.2	396
1319	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
1318	. *IEEE Transactions on Power Electronics*, **2017**, 32, 1894-1907	7.2	364
1317	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2427-2451	7.2	364
1316	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
1315	An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme. *IEEE Transactions on Power Electronics*, **2013**, 28, 5272-5282	7.2	322
1314	. *IEEE Transactions on Smart Grid*, **2012**, 3, 797-807	10.7	321
1313	. *IEEE Transactions on Power Electronics*, **2014**, 29, 2750-2763	7.2	318
1312	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5458-5471	8.9	292
1311	. *IEEE Transactions on Smart Grid*, **2015**, 6, 324-332	10.7	290
1310	Distributed Generation: Toward a New Energy Paradigm. *IEEE Industrial Electronics Magazine*, **2010**, 4, 52-64	6.2	279

1309	Hierarchical Control of Intelligent Microgrids. *IEEE Industrial Electronics Magazine*, **2010**, 4, 23-29	6.2	275
1308	. *IEEE Transactions on Smart Grid*, **2015**, 6, 3006-3019	10.7	265
1307	. *IEEE Transactions on Energy Conversion*, **2014**, 29, 944-956	5.4	263
1306	. *IEEE Transactions on Smart Grid*, **2012**, 3, 1893-1902	10.7	253
1305	. *IEEE Transactions on Smart Grid*, **2014**, 5, 683-692	10.7	252
1304	. *IEEE Transactions on Energy Conversion*, **2014**, 29, 922-933	5.4	235
1303	Optimal Power Flow in Microgrids With Energy Storage. *IEEE Transactions on Power Systems*, **2013**, 28, 3226-3234	7	230
1302	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1390-1402	8.9	222
1301	Dynamics Assessment of Advanced Single-Phase PLL Structures. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 2167-2177	8.9	220
1300	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4510-4519	8.9	215
1299	Computational optimization techniques applied to microgrids planning: A review. *Renewable and Sustainable Energy Reviews*, **2015**, 48, 413-424	16.2	212
1298	Microgrid supervisory controllers and energy management systems: A literature review. *Renewable and Sustainable Energy Reviews*, **2016**, 60, 1263-1273	16.2	211
1297	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
1296	Microgrids: Experiences, barriers and success factors. *Renewable and Sustainable Energy Reviews*, **2014**, 40, 659-672	16.2	203
1295	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
1294	. *IEEE Transactions on Power Electronics*, **2016**, 31, 3932-3944	7.2	196
1293	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
1292	Advanced LVDC Electrical Power Architectures and Microgrids: A step toward a new generation of power distribution networks.. *IEEE Electrification Magazine*, **2014**, 2, 54-65	2.6	192

1291	. *IEEE Transactions on Smart Grid*, **2016**, 7, 1430-1441	10.7	188
1290	. *IEEE Transactions on Power Electronics*, **2016**, 31, 1600-1617	7.2	187
1289	. *IEEE Transactions on Smart Grid*, **2014**, 5, 2476-2485	10.7	185
1288	. *IEEE Transactions on Smart Grid*, **2015**, 6, 2770-2783	10.7	176
1287	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
1286	Single-Phase PLLs: A Review of Recent Advances. *IEEE Transactions on Power Electronics*, **2017**, 32, 9013-9030	7.2	174
1285	. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 448-460	11.9	173
1284	. *IEEE Transactions on Power Electronics*, **2015**, 30, 3133-3141	7.2	172
1283	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
1282	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
1281	. *IEEE Transactions on Power Electronics*, **2018**, 33, 6488-6508	7.2	171
1280	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 5363-5374	8.9	168
1279	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. *IEEE Industrial Electronics Magazine*, **2013**, 7, 42-55	6.2	161
1278	A multi-agent based energy management solution for integrated buildings and microgrid system. *Applied Energy*, **2017**, 203, 41-56	10.7	161
1277	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
1276	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
1275	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2769-2783	7.2	156
1274	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

1273	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
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1271	Smart transactive energy framework in grid-connected multiple home microgrids under independent and coalition operations. *Renewable Energy*, **2018**, 126, 95-106	8.1	153
1270	. *IEEE Systems Journal*, **2017**, 11, 1712-1722	4.3	148
1269	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
1268	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
1267	. *IEEE Transactions on Smart Grid*, **2015**, 6, 1156-1166	10.7	142
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1265	. *IEEE Transactions on Power Electronics*, **2012**, 27, 3639-3650	7.2	137
1264	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
1263	Support Vector Machines for crop/weeds identification in maize fields. *Expert Systems With Applications*, **2012**, 39, 11149-11155	7.8	128
1262	. *IEEE Transactions on Smart Grid*, **2016**, 7, 1504-1515	10.7	123
1261	. *IEEE Transactions on Smart Grid*, **2017**, 8, 557-571	10.7	120
1260	A Novel Distributed Secondary Coordination Control Approach for Islanded Microgrids. *IEEE Transactions on Smart Grid*, **2018**, 9, 2726-2740	10.7	120
1259	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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1256	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

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1249	Line-Interactive UPS for Microgrids. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 1292-1300	8.9	109
1248	Modeling and Nonlinear Control of a Fuel Cell/Supercapacitor Hybrid Energy Storage System for Electric Vehicles. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 3011-3018	6.8	107
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1238	. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 703-714	11.9	95

1237	. *IEEE Electrification Magazine*, **2016**, 4, 20-28	2.6	95
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1233	. *IEEE Transactions on Smart Grid*, **2017**, 8, 2754-2764	10.7	94
1232	Flexible Control Strategy for Grid-Connected Inverter Under Unbalanced Grid Faults Without PLL. *IEEE Transactions on Power Electronics*, **2015**, 30, 1773-1778	7.2	94
1231	Distributed Noise-Resilient Secondary Voltage and Frequency Control for Islanded Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 3780-3790	10.7	94
1230	. *IEEE Transactions on Power Delivery*, **2012**, 27, 2318-2325	4.3	94
1229	A Review of Power Electronics Based Microgrids. *Journal of Power Electronics*, **2012**, 12, 181-192	0.9	93
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1227	. *IEEE Transactions on Power Electronics*, **2020**, 35, 6482-6500	7.2	92
1226	. *IEEE Transactions on Smart Grid*, **2017**, 8, 2138-2148	10.7	90
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1221	. *IEEE Transactions on Energy Conversion*, **2016**, 31, 970-980	5.4	89
1220	A Quasi-Type-1 Phase-Locked Loop Structure. *IEEE Transactions on Power Electronics*, **2014**, 29, 6264-6270	7.2	88

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1218	Single-Phase Microgrid With Seamless Transition Capabilities Between Modes of Operation. *IEEE Transactions on Smart Grid*, **2015**, 6, 2736-2745	10.7	87
1217	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4344-4354	8.9	86
1216	DC Microgrid Protection: A Comprehensive Review. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 1-1	5.6	84
1215	Model Predictive Control of Bidirectional DC□DC 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
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1213	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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1192	Hybrid machine intelligent SVR variants for wind forecasting and ramp events. *Renewable and Sustainable Energy Reviews*, **2019**, 108, 369-379	16.2	73
1191	. *IEEE Transactions on Power Electronics*, **2016**, 31, 5974-5991	7.2	73
1190	Improving Frequency Stability Based on Distributed Control of Multiple Load Aggregators. *IEEE Transactions on Smart Grid*, **2017**, 8, 1553-1567	10.7	72
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1188	Review on microgrids protection. *IET Generation, Transmission and Distribution*, **2019**, 13, 743-759	2.5	72
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1170	Automatic expert system for weeds/crops identification in images from maize fields. *Expert Systems With Applications*, **2013**, 40, 75-82	7.8	64
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1167	Model predictive control of microgrids An overview. *Renewable and Sustainable Energy Reviews*, **2021**, 136, 110422	16.2	64
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