

Pedro Rodriguez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296
papers

15,500
citations

54
h-index

120
g-index

353
ext. papers

20,143
ext. citations

5.1
avg. IF

6.84
L-index

#	Paper	IF	Citations
296	Modelling and Simulation of Bifacial PV Production Using Monofacial Electrical Models. <i>Energies</i> , 2021 , 14, 4224	3.1	3
295	Design of Controller for Virtual Synchronous Power Plant. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4033-4041	4.3	5
294	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 485-496	5.6	2
293	External Inertia Emulation Controller for Grid-following Power Converter. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	1
292	Quadrature Voltage Compensation in the Isolated Multi-Modular Converter. <i>Energies</i> , 2021 , 14, 529	3.1	1
291	Grid-Forming Power Converters Tuned Through Artificial Intelligence to Damp Subsynchronous Interactions in Electrical Grids. <i>IEEE Access</i> , 2020 , 8, 93369-93379	3.5	13
290	Inertia Emulation in Power Converters with Communication Delays 2020 ,		2
289	Zero Renewable Incentive Analysis for Flexibility Study of a Grid. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 47-60	0.2	4
288	Conflict of Interests Between SPC-Based BESS and UFLS Scheme Frequency Responses. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 61-72	0.2	3
287	Synchrophasor Based Monitoring System for Grid Interactive Energy Storage System Control. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 95-106	0.2	6
286	Novel Analytical Method for Dynamic Design of Renewable SSG SPC Unit to Mitigate Low-Frequency Electromechanical Oscillations. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7532-7544	7.2	8
285	Voltage Sensorless Grid-Forming Power Converters 2020 ,		1
284	Three-Phase Isolated Multimodular Converter in Renewable Energy Distribution Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 854-865	5.6	14
283	Power Quality Services Provided by Virtually Synchronous FACTS. <i>Energies</i> , 2019 , 12, 3292	3.1	3
282	Guest Editorial Joint Special Section on Power Conversion & Control in Photovoltaic Power Plants. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 159-160	5.4	1
281	. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 828-839	4.3	6
280	Three-Phase Custom Power Active Transformer for Power Flow Control Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2206-2219	7.2	7

279	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5178-5189	4.3	16
278	Coherency Groups Analysis based on Self Organizing Maps 2019 ,		2
277	A Cost/Worth Analysis Framework for Reliability Enhancement of Multi-Microgrid Distribution Systems 2019 ,		1
276	Synchronous Power Controller for Distributed Generation Units 2019 ,		2
275	Synchronous Frequency Support of Photovoltaic Power Plants with Inertia Emulation 2019 ,		1
274	LMI-based Control Design to Enhance Robustness of Synchronous Power Controller 2019 ,		1
273	Control of Energy Storage System Integrating Electrochemical Batteries and Supercapacitors for Grid-Connected Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1853-1862	4.3	47
272	Flexible Grid Connection and Islanding of SPC-Based PV Power Converters. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2690-2702	4.3	44
271	Power System Compensation Using a Power-Electronics Integrated Transformer. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1744-1754	4.3	9
270	Control of D-STATCOM During Unbalanced Grid Faults Based on DC Voltage Oscillations and Peak Current Limitations. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1680-1690	4.3	21
269	Single-Phase Modeling Approach in Dynamic Harmonic Domain. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 257-267	7	9
268	Custom Power Active Transformer for Flexible Operation of Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5773-5783	7.2	6
267	Remote Power Control Injection of Grid-Connected Power Converters Based on Virtual Flux. <i>Energies</i> , 2018 , 11, 488	3.1	
266	A Novel Ensemble Approach for Solving the Transient Stability Classification Problem 2018 ,		8
265	Smart AC Storage based on Microbial Electrosynthesis Stack 2018 ,		3
264	Multilevel Single Phase Isolated Inverter with Reduced Number of Switches 2018 ,		2
263	A Model for Flexibility Analysis of RESS with Electric Energy Storage and Reserve 2018 ,		4
262	Support Vector Machine and Neural Network Applications in Transient Stability 2018 ,		3

261	Synchrophasor Measurements for Control of Grid Interactive Energy Storage System Design alternatives for monitoring system 2018 ,		1
260	A Comparative Analysis of Decision Trees, Support Vector Machines and Artificial Neural Networks for On-line Transient Stability Assessment 2018 ,		15
259	Adaptive Vector Control of Wave Energy Converters. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 2382-2391	4.3	6
258	Frequency support characteristics of grid-interactive power converters based on the synchronous power controller. <i>IET Renewable Power Generation</i> , 2017 , 11, 470-479	2.9	34
257	Power system stability analysis under increasing penetration of photovoltaic power plants with synchronous power controllers. <i>IET Renewable Power Generation</i> , 2017 , 11, 733-741	2.9	79
256	Multiterminal DC grids: Operating analogies to AC power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 886-895	16.2	32
255	Inertia Emulation in AC/DC Interconnected Power Systems Using Derivative Technique Considering Frequency Measurement Effects. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3338-3351	7	127
254	DC Distribution Networks: A Solution for Integration of Distributed Generation Systems 2017 , 509-561		1
253	Impact of 100-MW-scale PV plants with synchronous power controllers on power system stability in northern Chile. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2958-2964	2.5	25
252	A Comparative Study of Methods for Estimating Virtual Flux at the Point of Common Coupling in Grid-Connected Voltage Source Converters With LCL Filter. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5795-5809	4.3	6
251	Multi-terminal DC grids: challenges and prospects. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 515-523	4	58
250	2017 ,		2
249	Hybrid solar plant with synchronous power controllers contribution to power system stability 2017 ,		2
248	Unified reference controller for flexible primary control and inertia sharing in multi-terminal voltage source converter-HVDC grids. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 750-758	2.5	37
247	Centralized Protection Strategy for Medium Voltage DC Microgrids. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 430-440	4.3	96
246	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1665-1677	7	73
245	Re-synchronization strategy for the synchronous power controller in HVDC systems 2017 ,		2
244	Model and control of the isolated multi-modular converter 2017 ,		3

243	Grid resonance attenuation in long lines by using renewable energy sources 2017 ,		2
242	Grid voltage harmonic damping method for SPC based power converters with multiple virtual admittance control 2017 ,		6
241	Adaptive vector control based wave-to-wire model of wave energy converters. <i>IET Power Electronics</i> , 2017 , 10, 1111-1119	2.2	1
240	Analysis on impacts of the shunt conductances in multi-terminal HVDC grids optimal power-flow 2017 ,		5
239	Synchronous power control for PV solar inverters with power reserve capability 2017 ,		5
238	Grid-connected converters with virtual electromechanical characteristics: experimental verification. <i>CSEE Journal of Power and Energy Systems</i> , 2017 , 3, 286-295	2.3	9
237	Flexible HVDC transmission systems small signal modelling: A case study on CIGRE Test MT-HVDC grid 2017 ,		9
236	Active power limiter for grid connection of modern renewable SSG SPC 2017 ,		3
235	Generation frequency support by renewable SSG SPC unit on interconnected areas 2017 ,		3
234	Synchronous Power Control of Grid-Connected Power Converters under Asymmetrical Grid Fault. <i>Energies</i> , 2017 , 10, 950	3.1	17
233	Modeling and sensitivity analyses of VSP based virtual inertia controller in HVDC links of interconnected power systems. <i>Electric Power Systems Research</i> , 2016 , 141, 246-263	3.5	22
232	Sizing Study of Second Life Li-ion Batteries for Enhancing Renewable Energy Grid Integration. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4999-5008	4.3	53
231	Frequency Control of HVDC Interconnected System Considering Derivative based Inertia Emulation 2016 ,		3
230	Derivative based inertia emulation of interconnected systems considering phase-locked loop dynamics 2016 ,		1
229	Autonomous inertia-sharing control of multi-terminal VSC-HVDC grids 2016 ,		2
228	Multi-terminal HVDC grids with inertia mimicry capability. <i>IET Renewable Power Generation</i> , 2016 , 10, 752-760	2.9	39
227	A communication-assisted protection scheme for direct-current distribution networks. <i>Energy</i> , 2016 , 109, 578-591	7.9	12
226	Flexible Control of Power Flow in Multiterminal DC Grids Using DCDC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1135-1144	5.6	47

225	Impedance-compensated grid synchronisation for extending the stability range of weak grids with voltage source converters. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1315-1326	2.5	83
224	Analysis of derivative control based virtual inertia in multi-area high-voltage direct current interconnected power systems. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1458-1469	2.5	109
223	A Unified Current Loop Tuning Approach for Grid-Connected Photovoltaic Inverters. <i>Energies</i> , 2016 , 9, 723	3.1	7
222	Control of VSC-HVDC with electromechanical characteristics and unified primary strategy 2016 ,		1
221	Dynamics estimation and generalized tuning of stationary frame current controller for grid-tied power converters. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2016 , 26, 85-95	0.4	1
220	A comparative study of methods for estimating virtual flux at the point of common coupling in grid connected voltage source converters with LCL filter 2016 ,		1
219	Grid support functionalities based on modular multilevel converters with synchronous power control 2016 ,		7
218	Synchronous Power Controller With Flexible Droop Characteristics for Renewable Power Generation Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1572-1582	8.2	74
217	Effects of PLL and frequency measurements on LFC problem in multi-area HVDC interconnected systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 81, 140-152	5.1	21
216	Multi-terminal medium voltage DC grids fault location and isolation. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3517-3528	2.5	44
215	Equivalent Model of Large-Scale Synchronous Photovoltaic Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5029-5040	4.3	35
214	A New PWM Strategy for Grid-Connected Half-Bridge Active NPC Converters With Losses Distribution Balancing Mechanism. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5331-5340	7.2	51
213	Protection of AC and DC distribution systems Embedding distributed energy resources: A comparative review and analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 1578-1593	16.2	67
212	Second life battery energy storage system for residential demand response service 2015 ,		21
211	Second life battery energy storage system for enhancing renewable energy grid integration 2015 ,		17
210	Comparison of different power loop controllers for synchronous power controlled grid-interactive converters 2015 ,		8
209	Equivalent model of a synchronous PV power plant 2015 ,		4
208	Synchronous PV support to an isolated power system 2015 ,		1

207	A communication-assisted protection for MVDC distribution systems with distributed generation 2015,		2
206	Aggregated model of a distributed PV plant using the synchronous power controller 2015,		2
205	An active power synchronizing controller for grid-connected power converters with configurable natural droop characteristics 2015,		5
204	A Generalized Voltage Droop Strategy for Control of Multiterminal DC Grids. <i>IEEE Transactions on Industry Applications, 2015, 51, 607-618</i>	4-3	154
203	Generalized voltage droop control with inertia mimicry capability - step towards automation of multi-terminal HVDC grids 2015,		7
202	Generalized voltage droop strategy for power synchronization control in multi-terminal DC grids - an analytical approach 2015,		3
201	Adaptive power control of wave energy converters for maximum power absorption under irregular sea-state conditions 2015,		2
200	Implementation of the differential protection for MVDC distribution systems using real-time simulation and hardware-in-the-loop 2015,		2
199	Flexible grid connection and islanding of SPC-based PV power converters 2015,		8
198	Overview of intelligent substation automation in distribution systems 2015,		3
197	Hierarchical Control of HV-MTDC Systems With Droop-Based Primary and OPF-Based Secondary. <i>IEEE Transactions on Smart Grid, 2015, 6, 1502-1510</i>	10.7	65
196	. <i>IEEE Transactions on Power Delivery, 2015, 30, 16-24</i>	4-3	42
195	Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions. <i>IEEE Transactions on Industry Applications, 2015, 51, 3414-3425</i>	4-3	123
194	Design considerations for primary control in multi-terminal VSC-HVDC grids. <i>Electric Power Systems Research, 2015, 122, 33-41</i>	3-5	37
193	DC Voltage Control and Power Sharing in Multiterminal DC Grids Based on Optimal DC Power Flow and Voltage-Droop Strategy. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1171-1180</i>	5-6	119
192	. <i>IEEE Transactions on Industry Applications, 2014, 50, 415-423</i>	4-3	7
191	Harmonic Compensation Analysis in Offshore Wind Power Plants Using Hybrid Filters. <i>IEEE Transactions on Industry Applications, 2014, 50, 2050-2060</i>	4-3	35
190	Intelligent voltage control in a DC micro-grid containing PV generation and energy storage 2014,		7

189	Analysis and design of virtual synchronous machine based STATCOM controller 2014 ,		15
188	A sensor-less sliding mode control scheme for a stand-alone wound rotor synchronous generator under unbalanced load conditions. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 60, 275-282	5.1	2
187	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4122-4131	4.3	37
186	Adaptive Droop for Primary Control in MTDC Networks with Energy Storage. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2014 , 24, 46-53	0.4	2
185	Evaluation and control design of virtual-synchronous-machine-based STATCOM for grids with high penetration of renewable energy 2014 ,		14
184	A protection strategy for fault detection and location for multi-terminal MVDC distribution systems with renewable energy systems 2014 ,		21
183	Posicast control [A novel approach to mitigate multi-machine power system oscillations in presence of wind farm 2014 ,		2
182	Optimized Control of Multi-Terminal DC Grids Using Particle Swarm Optimization. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2014 , 24, 38-49	0.4	9
181	A control strategy for DC-link voltage control containing PV generation and energy storage [An intelligent approach 2014 ,		2
180	Proposals for flexible operation of multi-terminal DC grids: Introducing flexible DC transmission system (FDCTS) 2014 ,		16
179	Enhanced control strategy for MMC-based STATCOM for unbalanced load compensation 2014 ,		13
178	An active power synchronization control loop for grid-connected converters 2014 ,		5
177	An active power self-synchronizing controller for grid-connected converters emulating inertia 2014 ,		5
176	Towards fully controllable multi-terminal DC grids using flexible DC transmission systems 2014 ,		9
175	Impacts of wind energy in-feed on power system small signal stability 2014 ,		7
174	Performance analysis of conventional PSS and fuzzy controller for damping power system oscillations 2014 ,		8
173	Distributed FLISR algorithm for smart grid self-reconfiguration based on IEC61850 2014 ,		3
172	Storage system requirements for grid supporting PV-power plants 2014 ,		10

171	A hybrid power flow controller for flexible operation of multi-terminal DC grids 2014,		12
170	Active Power and Frequency Control Considering Large-Scale RES. <i>Green Energy and Technology, 2014, 233-271</i>	0.6	6
169	Evaluation of Storage Energy Requirements for Constant Production in PV Power Plants. <i>IEEE Transactions on Industrial Electronics, 2013, 60, 1225-1234</i>	8.9	130
168	Daily Solar Energy Estimation for Minimizing Energy Storage Requirements in PV Power Plants. <i>IEEE Transactions on Sustainable Energy, 2013, 4, 474-481</i>	8.2	53
167	Optimized control of multi-terminal DC Grids Using particle swarm optimization 2013,		2
166	Adaptive droop for primary control in MTDC networks with energy storage 2013,		4
165	Predictive Power Control for PV Plants With Energy Storage. <i>IEEE Transactions on Sustainable Energy, 2013, 4, 482-490</i>	8.2	107
164	A hierarchical control structure for multi-terminal VSC-based HVDC grids with GVD characteristics 2013,		7
163	2013,		4
162	Design of AC-DC power converters with LCL + tuned trap line filter using Si IGBT and SiC MOSFET modules 2013,		3
161	A generalized voltage droop strategy for control of multi-terminal DC grids 2013,		21
160	Design of passive trap-LCL filters for two-level grid connected converters 2013,		3
159	Control of PV generation systems using the synchronous power controller 2013,		64
158	Grid harmonic detection and system resonances identification in wave power plant applications 2013,		1
157	Comprehensive analogy between conventional AC grids and DC grids characteristics 2013,		8
156	Control of grid-connected power converters based on a virtual admittance control loop 2013,		41
155	Analysis of ferroresonance effects in distribution networks with distributed source units 2013,		6
154	PSO-based LQR controller for multi modular converters 2013,		2

153	Analysis and comparison of battery energy storage technologies for grid applications 2013 ,		12
152	A novel approach for voltage control of multi-terminal DC grids with offshore wind farms 2013 ,		11
151	Modeling and control of multi modular converters using optimal LQR controller with integral action 2013 ,		5
150	A generalized compensation theory for active filters based on mathematical optimization in ABC frame. <i>Electric Power Systems Research</i> , 2012 , 90, 1-10	3.5	28
149	Voltage-Sensor-Less Synchronization to Unbalanced Grids by Frequency-Adaptive Virtual Flux Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2910-2923	8.9	74
148	Virtual-Flux-Based Voltage-Sensor-Less Power Control for Unbalanced Grid Conditions. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4071-4087	7.2	87
147	Power Capability Investigation Based on Electrothermal Models of Press-Pack IGBT Three-Level NPC and ANPC VSCs for Multimegawatt Wind Turbines. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3195-3206	7.2	83
146	Decoupled Double Synchronous Reference Frame current controller for unbalanced grid voltage conditions 2012 ,		8
145	Effect of VSC-HVDC on Load Frequency Control in Multi-Area Power System 2012 ,		13
144	Harmonic resonance damping in Wind Power Plant 2012 ,		1
143	Optimized LCL filter design methodology applied to MV grid-connected multimegawatt VSC 2012 ,		10
142	Design and Analysis of a Slope Voltage Control for a DFIG Wind Power Plant. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 11-20	5.4	41
141	. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 535-544	8.2	68
140	Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3934-3943	7.2	196
139	A Stationary Reference Frame Grid Synchronization System for Three-Phase Grid-Connected Power Converters Under Adverse Grid Conditions. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 99-112	7.2	448
138	Multilevel-Clamped Multilevel Converters (MLC ²). <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1055-1060	7.2	27
137	Advanced structures for grid synchronization of power converters in distributed generation applications 2012 ,		7
136	Multilink DC transmission for offshore Wind Power integration 2012 ,		6

135	Power density investigations for the large wind turbines Grid-side press-pack IGBT 3L-NPC-VSCs 2012,		6
134	Application of Imperialist Competitive Algorithm to design an optimal controller for LFC problem 2012,		2
133	Thermal and efficiency analysis of five-level multi-level clamped multilevel converter considering grid codes 2012,		2
132	Design and coordination of a capacitor and on-load tap changer system for voltage control in a wind power plant of doubly fed induction generator wind turbines. <i>Wind Energy</i> , 2012 , 15, 507-523	3-4	8
131	Control of Power Converters in AC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4734-4749		1701
130	Study on harmonic resonances and damping in wind power plant 2012,		3
129	Lithium ion batteries ageing analysis when used in a PV power plant 2012,		10
128	Identification and maximum power point tracking of photovoltaic generation by a local neuro-fuzzy model 2012,		5
127	Exploring the range of impedance conditioning by virtual inductance for grid connected voltage source converters 2012,		6
126	Efficiency analysis of DCM-232 three-phase PV topology 2012,		3
125	Power management strategies and energy storage needs to increase the operability of photovoltaic plants. <i>Journal of Renewable and Sustainable Energy</i> , 2012 , 4, 063101	2.5	5
124	Intelligent Connection Agent for Three-Phase Grid-Connected Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2993-3005	7.2	75
123	Control and operation of wind turbine converters during faults in an offshore wind power plant grid with VSC-HVDC connection 2011,		9
122	2011,		18
121	Short circuit signatures from different wind turbine generator types 2011,		15
120	Control of power converters in distributed generation applications under grid fault conditions 2011 ,		18
119	Simplified Modeling of a DFIG for Transient Studies in Wind Power Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 9-20	8.9	110
118	Overview of power processing structures for embedding Energy Storage in PV power converters 2011,		9

117	Sensorless control of PMSG-based wind Energy Conversion Systems using a FLL-based synchronization technique 2011 ,		2
116	Enhanced local grid voltage support method for high penetration of distributed generators 2011 ,		14
115	Mode Adaptive Droop Control With Virtual Output Impedances for an Inverter-Based Flexible AC Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 689-701	7.2	339
114	Local Reactive Power Control Methods for Overvoltage Prevention of Distributed Solar Inverters in Low-Voltage Grids. <i>IEEE Journal of Photovoltaics</i> , 2011 , 1, 174-182	3.7	288
113	Converter Structure-Based Power Loss and Static Thermal Modeling of The Press-Pack IGBT Three-Level ANPC VSC Applied to Multi-MW Wind Turbines. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 2505-2515	4.3	41
112	Multiresonant Frequency-Locked Loop for Grid Synchronization of Power Converters Under Distorted Grid Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 127-138	8.9	648
111	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1205-1217	8.9	251
110	2011 ,		1382
109	An overview of the reliability prediction related aspects of high power IGBTs in wind power applications. <i>Microelectronics Reliability</i> , 2011 , 51, 1903-1907	1.2	201
108	Power density investigation on the press-pack IGBT 3L-HB-VSCs applied to large 2011 ,		4
107	A New High-Efficiency Single-Phase Transformerless PV Inverter Topology. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 184-191	8.9	469
106	Parameterization of a synchronous generator to represent a doubly fed induction generator with chopper protection for fault studies. <i>Wind Energy</i> , 2011 , 14, 107-118	3.4	8
105	Electro-thermal modeling for junction temperature cycling-based lifetime prediction of a press-pack IGBT 3L-NPC-VSC applied to large wind turbines 2011 ,		22
104	Current control method for distributed generation power generation plants under grid fault conditions 2011 ,		26
103	Enhanced power calculator for droop control in single-phase systems 2011 ,		4
102	Optimal economic exploitation of hydrogen based grid-friendly zero energy buildings. <i>Renewable Energy</i> , 2011 , 36, 197-205	8.1	18
101	2011 ,		3
100	Multilevel-clamped multilevel converters (MLC2) - an alternative approach for multilevel power conversion 2011 ,		1

99	Constant common mode voltage modulation strategy for the FB10 power converter 2011 ,	2
98	An overview of harmonic analysis and resonances of large wind power plant 2011 ,	3
97	A low-disturbance diagnostic function integrated in the PV arraysMPPT algorithm 2011 ,	4
96	Comparison of two voltage control strategies for a wind power plant 2011 ,	22
95	Simulation of Wound Rotor Synchronous Machine under voltage sags 2010 ,	2
94	Grid synchronization for advanced power processing and FACTS in wind power systems 2010 ,	12
93	Power delivery in multiterminal VSC-HVDC transmission system for offshore wind power applications 2010 ,	11
92	Overview of FACTS devices for wind power plants directly connected to the transmission network 2010 ,	25
91	Islanding Detection 2010 , 93-122	1
90	Grid Synchronization in Single-Phase Power Converters 2010 , 43-91	4
89	Grid Converter Structures for Wind Turbine Systems 2010 , 123-143	0
88	Grid Requirements for PV 2010 , 31-42	1
87	Photovoltaic Inverter Structures 2010 , 5-29	3
86	Grid Requirements for WT Systems 2010 , 145-167	1
85	Intelligent control agent for transient to an island grid 2010 ,	12
84	Safe current injection strategies for a STATCOM under asymmetrical grid faults 2010 ,	39
83	Grid Synchronization in Three-Phase Power Converters 2010 , 169-204	4
82	Grid Converter Control for WTS 2010 , 205-236	3

81	Control of Grid Converters under Grid Faults 2010 , 237-287		3
80	Grid Filter Design 2010 , 289-312		1
79	Overview of recent grid codes for wind power integration 2010 ,		150
78	Grid Current Control 2010 , 313-354		1
77	Voltage quality improvement of microgrids under islanding mode 2010 ,		7
76	Converter structure-based power loss and static thermal modeling of the press-pack IGBT-based three-level ANPC and HB VSCs applied to Multi-MW wind turbines 2010 ,		5
75	Rotor Voltage Dynamics in the Doubly Fed Induction Generator During Grid Faults. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 118-130	7.2	243
74	Deterministic and Stochastic Study of Wind Farm Harmonic Currents. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 1071-1080	5.4	38
73	Microgrid connection management based on an intelligent connection agent 2010 ,		10
72	Evaluation of the voltage support strategies for the low voltage grid connected PV generators 2010 ,		54
71	A photovoltaic three-phase topology to reduce Common Mode Voltage 2010 ,		21
70	2010 ,		5
69	Overview of the energy storage systems for wind power integration enhancement 2010 ,		43
68	Frequency-adaptive Virtual Flux estimation for grid synchronization under unbalanced conditions 2010 ,		10
67	Renewable Energy Operation and Conversion Schemes: A Summary of Discussions During the Seminar on Renewable Energy Systems. <i>IEEE Industrial Electronics Magazine</i> , 2010 , 4, 38-51	6.2	84
66	Active current control in wind power plants during grid faults. <i>Wind Energy</i> , 2010 , 13, 737-749	3.4	9
65	Multiple second order generalized integrators for harmonic synchronization of power converters 2009 ,		51
64	Model predictive current control for high-power grid-connected converters with output LCL filter 2009 ,		24

63	Study of a simplified model for DFIG-based wind turbines 2009 ,		2
62	Optimization of an experimental hybrid microgrid operation: Reliability and economic issues 2009 ,		23
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