

Pedro Rodriguez

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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	Control of Power Converters in AC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4734-4749	7.2	1701
295	2011 ,		1382
294	Decoupled Double Synchronous Reference Frame PLL for Power Converters Control. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 584-592	7.2	706
293	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
292	Evaluation of Current Controllers for Distributed Power Generation Systems. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 654-664	7.2	570
291	A New High-Efficiency Single-Phase Transformerless PV Inverter Topology. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 184-191	8.9	469
290	. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2583-2592	8.9	466
289	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
288	PV panel model based on datasheet values 2007 ,		380
287	Adaptive Droop Control Applied to Voltage-Source Inverters Operating in Grid-Connected and Islanded Modes. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 4088-4096	8.9	370
286	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
285	New positive-sequence voltage detector for grid synchronization of power converters under faulty grid conditions		320
284	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
283	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1205-1217	8.9	251
282	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
281	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
280	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

279	Evaluation of the low-frequency neutral-point voltage oscillations in the three-level inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 1582-1588	8.9	186
278	Multilevel Diode-Clamped Converter for Photovoltaic Generators With Independent Voltage Control of Each Solar Array. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2713-2723	8.9	179
277	Advanced Grid Synchronization System for Power Converters under Unbalanced and Distorted Operating Conditions 2006 ,		172
276	Fast-Processing Modulation Strategy for the Neutral-Point-Clamped Converter With Total Elimination of Low-Frequency Voltage Oscillations in the Neutral Point. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2288-2294	8.9	161
275	A Generalized Voltage Droop Strategy for Control of Multiterminal DC Grids. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 607-618	4.3	154
274	Overview of recent grid codes for wind power integration 2010 ,		150
273	Evaluation of Storage Energy Requirements for Constant Production in PV Power Plants. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1225-1234	8.9	130
272	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
271	Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3414-3425	4.3	123
270	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</i> , 2014 , 2, 1171-1180	5.6	119
269	Grid synchronization of power converters using multiple second order generalized integrators 2008 ,		119
268	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
267	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
266	Predictive Power Control for PV Plants With Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 482-490	8.2	107
265	Reactive Power Control for Improving Wind Turbine System Behavior Under Grid Faults. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1798-1801	7.2	102
264	Centralized Protection Strategy for Medium Voltage DC Microgrids. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 430-440	4.3	96
263	Active filtering function of three-phase PWM boost rectifier under different line voltage conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 410-419	8.9	92
262	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

261	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
260	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
259	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
258	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
257	Intelligent Connection Agent for Three-Phase Grid-Connected Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2993-3005	7.2	75
256	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
255	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
254	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1665-1677	7	73
253	Limits of the neutral-point balance in back-to-back-connected three-level converters. <i>IEEE Transactions on Power Electronics</i> , 2004 , 19, 722-731	7.2	71
252	Online grid impedance estimation for single-phase grid-connected systems using PQ variations 2007 ,		70
251	. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 535-544	8.2	68
250	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
249	Clustered PV inverters in LV networks: An overview of impacts and comparison of voltage control strategies 2009 ,		67
248	Hierarchical Control of HV-MTDC Systems With Droop-Based Primary and OPF-Based Secondary. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1502-1510	10.7	65
247	Control of PV generation systems using the synchronous power controller 2013 ,		64
246	Double Synchronous Reference Frame PLL for Power Converters Control 2005 ,		60
245	Application of Discontinuous PWM Modulation in Active Power Filters. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 1692-1706	7.2	59
244	Multi-terminal DC grids: challenges and prospects. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 515-523	4	58

243	Control Strategies for Distributed Power Generation Systems Operating on Faulty Grid 2006,		58
242	Evaluation of the voltage support strategies for the low voltage grid connected PV generators 2010,		54
241	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
240	Daily Solar Energy Estimation for Minimizing Energy Storage Requirements in PV Power Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 474-481	8.2	53
239	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
238	Multiple second order generalized integrators for harmonic synchronization of power converters 2009,		51
237	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
236	Current Harmonics Cancellation in Three-Phase Four-Wire Systems by Using a Four-Branch Star Filtering Topology. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1939-1950	7.2	47
235	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
234	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
233	PLL algorithm for power generation systems robust to grid voltage faults		44
232	Multi-terminal medium voltage DC grids fault location and isolation. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3517-3528	2.5	44
231	Overview of the energy storage systems for wind power integration enhancement 2010,		43
230	. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 16-24	4.3	42
229	Independent PQ Control for Distributed Power Generation Systems under Grid Faults 2006,		42
228	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
227	Control of grid-connected power converters based on a virtual admittance control loop 2013,		41
226	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

225	Multi-terminal HVDC grids with inertia mimicry capability. <i>IET Renewable Power Generation</i> , 2016 , 10, 752-760	2.9	39
224	Safe current injection strategies for a STATCOM under asymmetrical grid faults 2010 ,		39
223	Deterministic and Stochastic Study of Wind Farm Harmonic Currents. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 1071-1080	5.4	38
222	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4122-4131	4.3	37
221	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
220	Design considerations for primary control in multi-terminal VSC-HVDC grids. <i>Electric Power Systems Research</i> , 2015 , 122, 33-41	3.5	37
219	Line Impedance Estimation Using Active and Reactive Power Variations 2007 ,		36
218	Harmonic Compensation Analysis in Offshore Wind Power Plants Using Hybrid Filters. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2050-2060	4.3	35
217	Reduction of Switching Losses in Active Power Filters With a New Generalized Discontinuous-PWM Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 467-471	8.9	35
216	Equivalent Model of Large-Scale Synchronous Photovoltaic Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5029-5040	4.3	35
215	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
214	Influence analysis of the effects of an inductive-resistive weak grid over L and LCL filter current hysteresis controllers 2007 ,		34
213	Multiterminal DC grids: Operating analogies to AC power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 886-895	16.2	32
212	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
211	Photovoltaic module diagnostics by series resistance monitoring and temperature and rated power estimation 2008 ,		28
210	Multilevel-Clamped Multilevel Converters (MLC ²). <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1055-1060	7.2	27
209	Current control method for distributed generation power generation plants under grid fault conditions 2011 ,		26
208	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

207	Overview of FACTS devices for wind power plants directly connected to the transmission network 2010,		25
206	Model predictive current control for high-power grid-connected converters with output LCL filter 2009,		24
205	Optimization of an experimental hybrid microgrid operation: Reliability and economic issues 2009,		23
204	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
203	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
202	Comparison of two voltage control strategies for a wind power plant 2011,		22
201	Second life battery energy storage system for residential demand response service 2015,		21
200	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
199	A protection strategy for fault detection and location for multi-terminal MVDC distribution systems with renewable energy systems 2014,		21
198	A generalized voltage droop strategy for control of multi-terminal DC grids 2013,		21
197	A photovoltaic three-phase topology to reduce Common Mode Voltage 2010,		21
196	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
195	Low voltage ride through strategies for SCIG wind turbines in distributed power generation systems. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008,		19
194	2011,		18
193	Control of power converters in distributed generation applications under grid fault conditions 2011		18
192	Optimal economic exploitation of hydrogen based grid-friendly zero energy buildings. <i>Renewable Energy</i> , 2011 , 36, 197-205	8.1	18
191	Adaptive hysteresis band current control for transformerless single-phase PV inverters 2009,		18
190	Evaluation of three-phase transformerless photovoltaic inverter topologies 2007,		18

189	Linear and Nonlinear Control of Distributed Power Generation Systems. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		18
188	Second life battery energy storage system for enhancing renewable energy grid integration 2015 ,		17
187	Synchronous Power Control of Grid-Connected Power Converters under Asymmetrical Grid Fault. <i>Energies</i> , 2017 , 10, 950	3.1	17
186			17
185	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5178-5189	4.3	16
184	Proposals for flexible operation of multi-terminal DC grids: Introducing flexible DC transmission system (FDCTS) 2014 ,		16
183	Analysis and design of virtual synchronous machine based STATCOM controller 2014 ,		15
182	Short circuit signatures from different wind turbine generator types 2011 ,		15
181	New control strategy to allow the photovoltaic systems operation under grid faults 2009 ,		15
180	Adaptive droop control applied to distributed generation inverters connected to the grid 2008 ,		15
179	A Comparative Analysis of Decision Trees, Support Vector Machines and Artificial Neural Networks for On-line Transient Stability Assessment 2018 ,		15
178	Evaluation and control design of virtual-synchronous-machine-based STATCOM for grids with high penetration of renewable energy 2014 ,		14
177	Enhanced local grid voltage support method for high penetration of distributed generators 2011 ,		14
176	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
175	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
174	Enhanced control strategy for MMC-based STATCOM for unbalanced load compensation 2014 ,		13
173	Effect of VSC-HVDC on Load Frequency Control in Multi-Area Power System 2012 ,		13
172	Comparison of power control strategies for DFIG wind turbines 2008 ,		13

171	A communication-assisted protection scheme for direct-current distribution networks. <i>Energy</i> , 2016 , 109, 578-591	7.9	12
170	A hybrid power flow controller for flexible operation of multi-terminal DC grids 2014 ,		12
169	Analysis and comparison of battery energy storage technologies for grid applications 2013 ,		12
168	Grid synchronization for advanced power processing and FACTS in wind power systems 2010 ,		12
167	Intelligent control agent for transient to an island grid 2010 ,		12
166	Doubly-Fed Induction Generator Control Under Voltage Sags 2008 ,		12
165	A novel approach for voltage control of multi-terminal DC grids with offshore wind farms 2013 ,		11
164	Power delivery in multiterminal VSC-HVDC transmission system for offshore wind power applications 2010 ,		11
163	Grid Synchronization of Wind Turbine Converters under Transient Grid Faults using a Double Synchronous Reference Frame PLL 2008 ,		11
162	Grid Impedance Identification Based on Active Power Variations and Grid Voltage Control. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		11
161	Storage system requirements for grid supporting PV-power plants 2014 ,		10
160	Optimized LCL filter design methodology applied to MV grid-connected multimegawatt VSC 2012 ,		10
159	Microgrid connection management based on an intelligent connection agent 2010 ,		10
158	Frequency-adaptive Virtual Flux estimation for grid synchronization under unbalanced conditions 2010 ,		10
157	Lithium ion batteries ageing analysis when used in a PV power plant 2012 ,		10
156	Partial shadowing detection based on equivalent thermal voltage monitoring for PV module diagnostics 2009 ,		10
155	A new current control for the STATCOM based on secondary order generalized integrators. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		10
154	Fast-processing modulation strategy for the neutral-point-clamped converter with total elimination of the low-frequency voltage oscillations in the neutral point 2005 ,		10

153	Power System Compensation Using a Power-Electronics Integrated Transformer. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1744-1754	4.3	9
152	Single-Phase Modeling Approach in Dynamic Harmonic Domain. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 257-267	7	9
151	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
150	Flexible HVDC transmission systems small signal modelling: A case study on CIGRE Test MT-HVDC grid 2017 ,		9
149	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
148	Towards fully controllable multi-terminal DC grids using flexible DC transmission systems 2014 ,		9
147	Control and operation of wind turbine converters during faults in an offshore wind power plant grid with VSC-HVDC connection 2011 ,		9
146	Overview of power processing structures for embedding Energy Storage in PV power converters 2011 ,		9
145	Control of DFIG-WT under unbalanced grid voltage conditions 2009 ,		9
144	Active current control in wind power plants during grid faults. <i>Wind Energy</i> , 2010 , 13, 737-749	3.4	9
143			9
142	Comparison of different power loop controllers for synchronous power controlled grid-interactive converters 2015 ,		8
141	Flexible grid connection and islanding of SPC-based PV power converters 2015 ,		8
140	Performance analysis of conventional PSS and fuzzy controller for damping power system oscillations 2014 ,		8
139	Decoupled Double Synchronous Reference Frame current controller for unbalanced grid voltage conditions 2012 ,		8
138	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
137	Comprehensive analogy between conventional AC grids and DC grids characteristics 2013 ,		8
136	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

135	Complex-space recursive least squares power system identification 2007 ,		8
134	Design and Evaluation of a PLL-Based Position Controller for Sensorless Vector Control of Permanent-Magnet Synchronous Machines 2006 ,		8
133	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
132	A Novel Ensemble Approach for Solving the Transient Stability Classification Problem 2018 ,		8
131	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
130	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 415-423	4.3	7
129	Intelligent voltage control in a DC micro-grid containing PV generation and energy storage 2014 ,		7
128	A hierarchical control structure for multi-terminal VSC-based HVDC grids with GVD characteristics 2013 ,		7
127	Generalized voltage droop control with inertia mimicry capability - step towards automation of multi-terminal HVDC grids 2015 ,		7
126	Impacts of wind energy in-feed on power system small signal stability 2014 ,		7
125	Advanced structures for grid synchronization of power converters in distributed generation applications 2012 ,		7
124	Voltage quality improvement of microgrids under islanding mode 2010 ,		7
123	A new electrostatic field measurement method: The coherent-notch field mill. <i>Journal of Electrostatics</i> , 2007 , 65, 431-437	1.7	7
122	Enhancement of Carrier-Based Modulation Strategies for Multilevel Converters 2005 ,		7
121	A Unified Current Loop Tuning Approach for Grid-Connected Photovoltaic Inverters. <i>Energies</i> , 2016 , 9, 723	3.1	7
120	Grid support functionalities based on modular multilevel converters with synchronous power control 2016 ,		7
119	Adaptive Vector Control of Wave Energy Converters. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 2382-2391	4.3	6
118	. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 828-839	4.3	6

117	Custom Power Active Transformer for Flexible Operation of Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5773-5783	7.2	6
116	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
115	Grid voltage harmonic damping method for SPC based power converters with multiple virtual admittance control 2017 ,		6
114	Multilink DC transmission for offshore Wind Power integration 2012 ,		6
113	Power density investigations for the large wind turbinesGrid-side press-pack IGBT 3L-NPC-VSCs 2012 ,		6
112	Analysis of ferroresonance effects in distribution networks with distributed source units 2013 ,		6
111	Exploring the range of impedance conditioning by virtual inductance for grid connected voltage source converters 2012 ,		6
110	Virtual prototyping of universal control architecture systems by means of processor in the loop technology 2007 ,		6
109	Synchrophasor Based Monitoring System for Grid Interactive Energy Storage System Control. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 95-106	0.2	6
108	Active Power and Frequency Control Considering Large-Scale RES. <i>Green Energy and Technology</i> , 2014 , 233-271	0.6	6
107	An active power synchronizing controller for grid-connected power converters with configurable natural droop characteristics 2015 ,		5
106	Analysis on impacts of the shunt conductances in multi-terminal HVDC grids optimal power-flow 2017 ,		5
105	Synchronous power control for PV solar inverters with power reserve capability 2017 ,		5
104	An active power synchronization control loop for grid-connected converters 2014 ,		5
103	An active power self-synchronizing controller for grid-connected converters emulating inertia 2014 ,		5
102	Modeling and control of multi modular converters using optimal LQR controller with integral action 2013 ,		5
101	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
100	2010 ,		5

99	Identification and maximum power point tracking of photovoltaic generation by a local neuro-fuzzy model 2012 ,		5
98	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
97	Grid Monitoring for Distributed Power Generation Systems to Comply with Grid Codes 2006 ,		5
96	Grid Impedance Identification Based on Active Power Variations and Grid Voltage Control. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		5
95	Correction to "Decoupled Double Synchronous Reference Frame PLL for Power Converters Control" [Mar 07 584-592]. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1078-1078	7.2	5
94	Design of Controller for Virtual Synchronous Power Plant. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4033-4041	4.3	5
93	Equivalent model of a synchronous PV power plant 2015 ,		4
92	Adaptive droop for primary control in MTDC networks with energy storage 2013 ,		4
91	2013 ,		4
90	Power density investigation on the press-pack IGBT 3L-HB-VSCs applied to large 2011 ,		4
89	Grid Synchronization in Single-Phase Power Converters 2010 , 43-91		4
88	Grid Synchronization in Three-Phase Power Converters 2010 , 169-204		4
87	Enhanced power calculator for droop control in single-phase systems 2011 ,		4
86	A low-disturbance diagnostic function integrated in the PV arraysMPPT algorithm 2011 ,		4
85	Proposal of a resonant controller for a three phase four wire grid-connected shunt hybrid filter 2009 ,		4
84	Modulation Strategies for a Low-Cost Motor Drive 2006 ,		4
83	A New Generalized Discontinuous-PWM Strategy for Active Power Filters. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		4
82	Zero Renewable Incentive Analysis for Flexibility Study of a Grid. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 47-60	0.2	4

81	A Model for Flexibility Analysis of RESS with Electric Energy Storage and Reserve 2018 ,	4
80	Power Quality Services Provided by Virtually Synchronous FACTS. <i>Energies</i> , 2019 , 12, 3292	3.1 3
79	Frequency Control of HVDC Interconnected System Considering Derivative based Inertia Emulation 2016 ,	3
78	Model and control of the isolated multi-modular converter 2017 ,	3
77	Active power limiter for grid connection of modern renewable SSG SPC 2017 ,	3
76	Generation frequency support by renewable SSG SPC unit on interconnected areas 2017 ,	3
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74	Overview of intelligent substation automation in distribution systems 2015 ,	3
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