Maria Marta Molinas Cabrera

List of Publications by Year
in descending order

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323 papers	8,330 citations	53660 45 h-index	62479 80 g-index
331 all docs	331 docs citations	331 times ranked	5087 citing authors

#	Article	IF	Citations
1	Parametric Stability Assessment of Single-Phase Grid-Tied VSCs Using Peak and Average DC Voltage Control. IEEE Transactions on Industrial Electronics, 2022, 69, 2904-2915.	5.2	5
2	Freewheeling Current-Based Sensorless Field-Oriented Control of Five-Phase Permanent Magnet Synchronous Motors Under Insulated Gate Bipolar Transistor Failures of a Single Phase. IEEE Transactions on Industrial Electronics, 2022, 69, 213-224.	5.2	22
3	Relevance-based Channel Selection for EEG Source Reconstruction: An Approach to Identify Low-density Channel Subsets. , 2022, , .		1
4	Two-dimensional CNN-based distinction of human emotions from EEG channels selected by multi-objective evolutionary algorithm. Scientific Reports, 2022, 12, 3523.	1.6	15
5	Projections of Cyberattacks on Stability of DC Microgridsâ€"Modeling Principles and Solution. IEEE Transactions on Power Electronics, 2022, 37, 11774-11786.	5.4	15
6	Analysis of Power Electronics-Dominated Hybrid AC/DC Grid for Data-Driven Oscillation Diagnosis. , 2022, , .		2
7	Impedance scanning with chirps for single-phase converters. , 2022, , .		1
8	Instability Mode Recognition of Grid- Tied Voltage Source Converters with Nonstationary Signal Analysis. , 2022, , .		1
9	Impedance-Based Stability Analysis of Systems with the Dominant Presence of Distributed Power Sources. , 2022, , .		2
10	Repetitive Control Based Phase Voltage Modulation Amendment for FOC-Based Five-Phase PMSMs Under Single-Phase Open Fault. IEEE Transactions on Industrial Electronics, 2021, 68, 1949-1960.	5.2	32
11	Oscillation analysis of low-voltage distribution systems with high penetration of photovoltaic generation. Electrical Engineering, 2021, 103, 1141-1154.	1.2	6
12	Modeling and Analysis of SOGI-PLL/FLL-Based Synchronization Units: Stability Impacts of Different Frequency-Feedback Paths. IEEE Transactions on Energy Conversion, 2021, 36, 2047-2058.	3.7	42
13	PWM Investigation of a Field-Oriented Controlled Five-Phase PMSM Under Two-Phase Open Faults. IEEE Transactions on Energy Conversion, 2021, 36, 580-593.	3.7	12
14	An Input-Voltage-Sharing Control Strategy of Input-Series-Output-Parallel Isolated Bidirectional DC/DC Converter for DC Distribution Network. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	25
15	A Mustard Seed Planted Years Ago Sprouts and Continues to Grow. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3-6.	3.7	0
16	Impact of digital time delay on the stable gridâ€hosting capacity of largeâ€scale centralised PV plant. IET Renewable Power Generation, 2021, 15, 1422-1435.	1.7	2
17	A Two-stage Area-efficient High Input Impedance CMOS Amplifier for Neural Signals. , 2021, , .		0
18	A Low-power High-gain Inverter Stacking Amplifier with Rail-to-Rail Output. , 2021, , .		0

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19	Block Diagonal Dominance-Based Model Reduction Method Applied to MMC Asymmetric Stability Analysis. IEEE Transactions on Energy Conversion, 2021, 36, 2438-2451.	3.7	9
20	Automatic Onset Detection of Rapid Eye Movements in REM Sleep EEG Data. IFAC-PapersOnLine, 2021, 54, 257-262.	0.5	0
21	Impedance-Based Analysis of Interconnected Power Electronics Systems: Impedance Network Modeling and Comparative Studies of Stability Criteria. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2520-2533.	3.7	79
22	Modeling and analysis of grid-synchronizing stability of a Type-IV wind turbine under grid faults. International Journal of Electrical Power and Energy Systems, 2020, 117, 105544.	3.3	26
23	High-Power Machines and Starter-Generator Topologies for More Electric Aircraft: A Technology Outlook. IEEE Access, 2020, 8, 130104-130123.	2.6	74
24	Impedance and Noise of Passive and Active Dry EEG Electrodes: A Review. IEEE Sensors Journal, 2020, 20, 14565-14577.	2.4	77
25	High dynamic speed control of the Subsea Smart Electrical Actuator for a Gas Production System. , 2020, , .		1
26	A Fully Tunable Low-power Low-noise and High Swing EMG Amplifier with 8.26 PEF. , 2020, , .		2
27	Frequency Fluctuations in Marine Microgrids: Origins and Identification Tools. IEEE Electrification Magazine, 2020, 8, 40-46.	1.8	9
28	Towards a minimal EEG channel array for a biometric system using resting-state and a genetic algorithm for channel selection. Scientific Reports, 2020, 10, 14917.	1.6	17
29	A Power Efficient, High Gain and High Input Impedance Capacitively-coupled Neural Amplifier. , 2020, , .		2
30	Multi-objective optimization for EEG channel selection and accurate intruder detection in an EEG-based subject identification system. Scientific Reports, 2020, 10, 5850.	1.6	29
31	Synchronizing Stability Analysis and Region of Attraction Estimation of Grid-Feeding VSCs Using Sum-of-Squares Programming. Frontiers in Energy Research, 2020, 8, .	1.2	20
32	Low-Density EEG for Neural Activity Reconstruction Using Multivariate Empirical Mode Decomposition. Frontiers in Neuroscience, 2020, 14, 175.	1.4	22
33	EEG Channel-Selection Method for Epileptic-Seizure Classification Based on Multi-Objective Optimization. Frontiers in Neuroscience, 2020, 14, 593.	1.4	49
34	Measurement of Impedance-Frequency Property of Traction Network Using Cascaded H-Bridge Converters: Device Design and On-Site Test. IEEE Transactions on Energy Conversion, 2020, 35, 746-756.	3.7	8
35	An Integrated Method for Generating VSCsâ€™ Periodical Steady-State Conditions and HSS-Based Impedance Model. IEEE Transactions on Power Delivery, 2020, 35, 2544-2547.	2.9	8
36	Harmonic-Domain SISO Equivalent Impedance Modeling and Stability Analysis of a Single-Phase Grid-Connected VSC. IEEE Transactions on Power Electronics, 2020, 35, 9770-9783.	5.4	56

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37	Generalized MIMO Sequence Impedance Modeling and Stability Analysis of MMC-HVDC With Wind Farm Considering Frequency Couplings. IEEE Access, 2020, 8, 55602-55618.	2.6	34
38	Switching sequences for non-predictive declutching control of wave energy converters. IFAC-PapersOnLine, 2020, 53, 12295-12300.	0.5	3
39	Assessing the Impact of Idle State Type on the Identification of RGB Color Exposure for BCI. , 2020, , .		2
40	Classification of low-density EEG for epileptic seizures by energy and fractal features based on EMD. Journal of Biomedical Research, 2020, 34, 180.	0.7	27
41	Low-density EEG for Source Activity Reconstruction using Partial Brain Models. , 2020, , .		2
42	Impact of inverter digital time delay on the harmonic characteristics of gridâ€connected largeâ€scale photovoltaic system. IET Renewable Power Generation, 2020, 14, 3809-3815.	1.7	2
43	A fully differential capacitively-coupled high CMRR low-power chopper amplifier for EEG dry electrodes. Analog Integrated Circuits and Signal Processing, 2020, 102, 353-362.	0.9	4
44	AplicaciÃ³n de la transformada de Hilbert-Huang en el anÃ¡lisis de seÃ±ales de comunicaciÃ³n satelital. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 181.	0.6	3
45	Analysis of Harmonic Resonance for Locomotive and Traction Network Interacted System Considering the Frequency-Domain Passivity Properties of the Digitally Controlled Converter. Frontiers in Energy Research, 2020, 8, .	1.2	2
46	Defining Three Distribution System Scenarios for Microgrid Applications. , 2020, , .		4
47	High Input Impedance Capacitively-coupled Neural Amplifier and Its Boosting Principle. , 2020, , .		0
48	A Very Low SEF Neural Amplifier by Utilizing a High Swing Current-Reuse Amplifier. , 2020, , .		8
49	Complex vector analysis of a sensorless controlled three-phase motor drive and improvements by minimizing the observer order. , 2020, , .		0
50	A Gray-Box Method for Stability and Controller Parameter Estimation in HVDC-Connected Wind Farms Based on Nonparametric Impedance. IEEE Transactions on Industrial Electronics, 2019, 66, 1872-1882.	5.2	53
51	Harmonic State-Space Based Small-Signal Impedance Modeling of a Modular Multilevel Converter With Consideration of Internal Harmonic Dynamics. IEEE Transactions on Power Electronics, 2019, 34, 2134-2148.	5.4	208
52	On the Impedance Modeling and Equivalence of AC/DC-Side Stability Analysis of a Grid-Tied Type-IV Wind Turbine System. IEEE Transactions on Energy Conversion, 2019, 34, 1000-1009.	3.7	55
53	Harmonic Transfer-Function-Based Impedance Modeling of a Three-Phase VSC for Asymmetric AC Grid Stability Analysis. IEEE Transactions on Power Electronics, 2019, 34, 12552-12566.	5.4	54
54	Accurate aggregated modelling of wind farm systems in modified sequence domain for stability analysis. Electric Power Systems Research, 2019, 175, 105928.	2.1	11

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55	A Data-driven Approach to Grid Impedance Identification for Impedance-based Stability Analysis under Different Frequency Ranges. , 2019, , .		8
56	Sex differences observed in a study of EEG of linguistic activity and resting-state: Exploring optimal EEG channel configurations. , 2019, , .		3
57	Low Inductance Effects on Electric Drives using Slotless Permanent Magnet Motors: A Framework for Performance Analysis. , 2019, , .		8
58	Automatic Selection of Frequency Bands for Electroencephalographic Source Localization. , 2019, , .		1
59	Modified Current-reuse OTA to Achieve High CMRR by utilizing Cross-coupled Load. , 2019, , .		4
60	Microgrid design: sensitivity on models and parameters. , 2019, , .		0
61	Guest Editorial: Oscillations in Power Systems with High Penetration of RenewablePower Generations. IET Renewable Power Generation, 2019, 13, 1-3.	1.7	13
62	Optimal Shaping of the MMC Circulating Currents for Preventing AC-Side Power Oscillations From Propagating Into HVdc Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1015-1030.	3.7	21
63	Assessing High-Order Harmonic Resonance in Locomotive-Network Based on the Impedance Method. IEEE Access, 2019, 7, 68119-68131.	2.6	9
64	Control of a Type-IV Wind Turbine With the Capability of Robust Grid-Synchronization and Inertial Response for Weak Grid Stable Operation. IEEE Access, 2019, 7, 58553-58569.	2.6	35
65	Frequencyâ€domain modelling and stability analysis of a DFIGâ€based wind energy conversion system under nonâ€compensated AC grids: impedance modelling effects and consequences on stability. IET Power Electronics, 2019, 12, 907-914.	1.5	36
66	Distributed control architecture for real-time model predictive control for system-level harmonic mitigation in power systems. ISA Transactions, 2019, 93, 231-243.	3.1	6
67	Modified Single-Machine Aggregation of Wind Farms Based on Parameter Identification of the Impedance Network. , 2019, , .		1
68	Frequency Domain Modelling for Assessment of Hilbert and SOGI Based Single-Phase Synchronisation. , 2019, , .		7
69	Hybrid Technique for the Analysis of Non-Linear and Non-Stationary Signals focused on Power Quality. , 2019, , .		4
70	Impact of Virtual Oscillator Control on the instantaneous properties of VSC output voltage in distorted island grids. , 2019, , .		2
71	Sustainable model for rural electrification projects in Non-Interconnected Areas in Colombia. , 2019, , .		3
72	Discriminating between Color Exposure and Idle State using EEG Signals for BCI Application. , 2019, , .		1

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73	Analyzing the Recognition of Color Exposure and Imagined Color from EEG Signals. , 2019, , .		4
74	Event-related potential from EEG for a two-step Identity Authentication System. , 2019, , .		11
75	Stability Analysis of the Proportional-Resonant Controller in Single Phase Converters. , 2019, , .		1
76	Non-filter position sensorless control based on a Î±-Î² frame complex PI controller. , 2019, , .		0
77	Electrical Machines and Power Electronics For Starter-Generators in More Electric Aircrafts: A Technology Review. , 2019, , .		18
78	High-Frequency Injection-Based Sensorless Control for a General Five-Phase BLDC Motor Incorporating System Delay and Phase Resistance. IEEE Access, 2019, 7, 162862-162873.	2.6	14
79	Comparative Eigenvalue Analysis of Synchronous Machine Emulations and Synchronous Machines. , 2019, , .		7
80	A Ship Is a Microgrid and a Microgrid Is a Ship: Commonalities and Synergies [About This Issue]. IEEE Electrification Magazine, 2019, 7, 2-5.	1.8	4
81	Evaluation of wave-frequency motions extraction from dynamic positioning measurements using the empirical mode decomposition. , 2019, , .		1
82	Optimal Sizing of Energy Storage Systems for Shipboard Applications. IEEE Transactions on Energy Conversion, 2019, 34, 801-811.	3.7	66
83	The Impact of Timeâ€“Frequency Estimation Methods on the Performance of Wave Energy Converters Under Passive and Reactive Control. IEEE Transactions on Sustainable Energy, 2019, 10, 1784-1792.	5.9	12
84	Extremum-Seeking Control for Harmonic Mitigation in Electrical Grids of Marine Vessels. IEEE Transactions on Industrial Electronics, 2019, 66, 500-508.	5.2	8
85	Subâ€synchronous oscillation mechanism and its suppression in MMCâ€based HVDC connected wind farms. IET Generation, Transmission and Distribution, 2018, 12, 1021-1029.	1.4	88
86	Optimal Design of Controller Parameters for Improving the Stability of MMC-HVDC for Wind Farm Integration. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 40-53.	3.7	139
87	A Meta-Parameterized Approach for the Evaluation of Semiconductor Technologies. IEEJ Journal of Industry Applications, 2018, 7, 210-217.	0.9	11
88	Sequence Domain SISO Equivalent Models of a Grid-Tied Voltage Source Converter System for Small-Signal Stability Analysis. IEEE Transactions on Energy Conversion, 2018, 33, 741-749.	3.7	183
89	Analysis of Bifurcation Behaviors in MMC Connected to a Weak Grid. , 2018, , .		5
90	Harmonic State Space Modeling and Analysis of Modular Multilevel Converter. , 2018, , .		7

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91	Real Time Phasor Estimation Based on Recursive Prony with Several Channels of One PMU. , 2018, , .		1
92	EMD Mode Mixing Separation of Signals with Close Spectral Proximity in Smart Grids. , 2018, , .		19
93	Phasor Estimation Based on Modified Recursive Prony. , 2018, , .		3
94	Impedance-Based Stability Evaluation of Virtual Synchronous Machine Implementations in Converter Controllers. , 2018, , .		16
95	Localization of Active Brain Sources From EEG Signals Using Empirical Mode Decomposition: A Comparative Study. Frontiers in Integrative Neuroscience, 2018, 12, 55.	1.0	34
96	Design and Implementation of a Monitoring System for Decision Support in a Micro-Business Based on Solar Energy Microgrid in Rural Colombia. , 2018, , .		2
97	Analysis of Epileptic Activity Based on Brain Mapping of EEG Adaptive Time-Frequency Decomposition. Lecture Notes in Computer Science, 2018, , 319-328.	1.0	4
98	Damping region extension for digitally controlled LCLâ€type gridâ€connected inverter with capacitorâ€current feedback. IET Power Electronics, 2018, 11, 1974-1982.	1.5	29
99	Time-Frequency analysis for nonlinear and non-stationary signals using HHT: A mode mixing separation technique. IEEE Latin America Transactions, 2018, 16, 1091-1098.	1.2	13
100	Discrete-Time Tool for Stability Analysis of DC Power Electronics-Based Cascaded Systems. IEEE Transactions on Power Electronics, 2017, 32, 652-667.	5.4	66
101	Self-Synchronization of Wind Farm in an MMC-Based HVDC System: A Stability Investigation. IEEE Transactions on Energy Conversion, 2017, 32, 458-470.	3.7	67
102	Approaches to Economic Energy Management in Dieselâ€“Electric Marine Vessels. IEEE Transactions on Transportation Electrification, 2017, 3, 22-35.	5.3	69
103	Stabilization control methods for enhancing the stability of wind farm integration via an MMC-based HVDC system. , 2017, , .		7
104	Guest Editorial Energy Conversion in Next-generation Electric Ships. IEEE Transactions on Energy Conversion, 2017, 32, 735-736.	3.7	0
105	Small-Signal Stability Assessment of Power Electronics Based Power Systems: A Discussion of Impedance- and Eigenvalue-Based Methods. IEEE Transactions on Industry Applications, 2017, 53, 5014-5030.	3.3	234
106	On the Equivalence and Impact on Stability of Impedance Modeling of Power Electronic Converters in Different Domains. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1444-1454.	3.7	94
107	Apparent Impedance Analysis: A Small-Signal Method for Stability Analysis of Power Electronic-Based Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1474-1486.	3.7	67
108	Battery modeling and Kalman filter-based State-of-Charge estimation for a race car application. , 2017, , .		0

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109	Instantaneous Frequencies of Continuous Blood Pressure a Comparison of the Power Spectrum, the Continuous Wavelet Transform and the Hilbertâ€“Huang Transform. Advances in Data Science and Adaptive Analysis, 2017, 09, 1750009.	0.2	1
110	Properties and physical interpretation of the dynamic interactions between voltage source converters and grid: electrical oscillation and its stability control. IET Power Electronics, 2017, 10, 894-902.	1.5	41
111	Understanding the Origin of Oscillatory Phenomena Observed Between Wind Farms and HVdc Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 378-392.	3.7	131
112	Interaction of Droop Control Structures and Its Inherent Effect on the Power Transfer Limits in Multiterminal VSC-HVDC. IEEE Transactions on Power Delivery, 2017, 32, 182-192.	2.9	35
113	Impact of Power Flow Direction on the Stability of VSC-HVDC Seen From the Impedance Nyquist Plot. IEEE Transactions on Power Electronics, 2017, 32, 8204-8217.	5.4	80
114	Simple model for understanding harmonics propagation in single-phase microgrids. , 2017, , .		3
115	Guest Editorial: Special Issue on Power Electronics and Systems: Modeling, Analysis, Control, and Stability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1425-1426.	3.7	2
116	Real-Time Passive Control of Wave Energy Converters Using the Hilbert-Huang Transform * *This work was partially supported by CNPq-Brazil under grant number 201773/2015-5.. IFAC-PapersOnLine, 2017, 50, 14705-14710.	0.5	15
117	Impact of time varying angular frequency on the separation of instantaneous power components in stand-alone power systems. , 2017, , .		0
118	The Marine Electrical Revolution: Battery Power at Sea [About This Issue]. IEEE Electrification Magazine, 2017, 5, 2-3.	1.8	2
119	Analysis of neural activity from EEG data based on EMD frequency bands. , 2017, , .		6
120	Tool for detecting waveform distortions in inverter-based microgrids: A validation study. , 2016, , .		3
121	Impedance-based and eigenvalue based stability assessment compared in VSC-HVDC system. , 2016, , .		15
122	Self-synchronisation of wind farm in MMC-based HVDC system. , 2016, , .		12
123	Energy management and stabilization of a hybrid DC microgrid for transportation applications. , 2016, , .		13
124	Towards a Real-time Measurement Platform for Microgrids in Isolated Communities. Procedia Engineering, 2016, 159, 94-103.	1.2	8
125	Comparative study of semiconductor devices based on a meta-parameterised approach: SiC MOSFET vs Si IGBT technologies. , 2016, , .		4
126	Stability influence of renewable energy systems: Connection to DC nanogrids. , 2016, , .		3

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127	Instantaneous frequency tracking of harmonic distortions for grid impedance identification based on Kalman filtering. , 2016, , .		8
128	Optimal design of air-core inductor for medium/high power DC-DC converters. , 2016, , .		9
129	Real-time stability analysis of power electronic systems. , 2016, , .		7
130	Data-Driven decision support tool for power quality measures in marine vessel power system. , 2016, , .		0
131	Frequency-dependent source and load impedances in power systems based on power electronic converters. , 2016, , .		2
132	Active power flow direction effect on stability in multi-terminal VSC-HVDC transmission system in integrating wind farm. , 2016, , .		2
133	Apparent impedance analysis: A new method for power system stability analysis. , 2016, , .		7
134	Control of DC-capacitor peak voltage in reduced capacitance single-phase STATCOM. , 2016, , .		34
135	Discrete-Time Modeling, Stability Analysis, and Active Stabilization of DC Distribution Systems With Multiple Constant Power Loads. IEEE Transactions on Industry Applications, 2016, 52, 4888-4898.	3.3	34
136	Meta-parameterisation of power semiconductor devices for studies of efficiency and power density in high power converters. , 2016, , .		2
137	A Modified Sequence-Domain Impedance Definition and Its Equivalence to the dq-Domain Impedance Definition for the Stability Analysis of AC Power Electronic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1383-1396.	3.7	367
138	Past, Present, and Future Challenges of the Marine Vesselâ€™s Electrical Power System. IEEE Transactions on Transportation Electrification, 2016, 2, 522-537.	5.3	153
139	Stability analysis of hybrid AC/DC power systems for more electric aircraft. , 2016, , .		12
140	High frequency wind energy conversion system for offshore DC collection grid â€" Part II: Efficiency improvements. Sustainable Energy, Grids and Networks, 2016, 5, 177-185.	2.3	4
141	Impedanceâ€compensated grid synchronisation for extending the stability range of weak grids with voltage source converters. IET Generation, Transmission and Distribution, 2016, 10, 1315-1326.	1.4	119
142	Frequency Domain Stability Analysis of MMC-Based HVdc for Wind Farm Integration. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 141-151.	3.7	197
143	Flow-Based Forward Capacity Mechanism: An Alternative to the Regulated Capacity Remuneration Mechanisms in Electricity Market With High RES Penetration. IEEE Transactions on Sustainable Energy, 2016, 7, 830-840.	5.9	12
144	High frequency wind energy conversion system for offshore DC collection gridâ€"Part I: Comparative loss evaluation. Sustainable Energy, Grids and Networks, 2016, 5, 167-176.	2.3	5

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145	System-Wide Harmonic Mitigation in a Diesel-Electric Ship by Model Predictive Control. IEEE Transactions on Industrial Electronics, 2016, 63, 4008-4019.	5.2	30
146	The role of electrical energy storage in sub-Saharan Africa. Journal of Energy Storage, 2016, 8, 287-299.	3.9	17
147	Stability Analysis and Dynamic Performance Evaluation of a Power Electronics-Based DC Distribution System With Active Stabilizer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 93-102.	3.7	74
148	Global Tracking Passivity-based PI Control of Bilinear Systems and its Application to the Boost and Modular Multilevel Convertersâˆ—âˆ—Due to a lack of space the proofs were not included. The interested reader is referred to the full version Cisneros et al. (2015). IFAC-PapersOnLine, 2015, 48, 420-425.	0.5	6
149	Discrete-time modelling, stability analysis, and active stabilization of dc distribution systems with constant power loads. , 2015, , .		14
150	Impedance modeling of modular multilevel converters. , 2015, , .		22
151	Impact of state-space modelling fidelity on the small-signal dynamics of VSC-HVDC systems. , 2015, , .		22
152	A Flexible Power Electronics Configuration for Coupling Renewable Energy Sources. Electronics (Switzerland), 2015, 4, 283-302.	1.8	9
153	Handling system harmonic propagation in a diesel-electric ship with an active filter. , 2015, , .		9
154	Comparative Study of Wind Turbine Power Converters Based on Medium-Frequency AC-Link for Offshore DC-Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 525-541.	3.7	29
155	A methodology for supporting the planning of microgrids based on composable tools: A case in Bhutan. , 2015, , .		1
156	Global tracking passivity-based PI control of bilinear systems: Application to the interleaved boost and modular multilevel converters. Control Engineering Practice, 2015, 43, 109-119.	3.2	69
157	Electro-mechanical model for understanding the operation and dynamic behavior of a micro-grid: A case study in Tanzania. , 2015, , .		0
158	Management of harmonic propagation in a marine vessel by use of optimization. , 2015, , .		7
159	Optimized current reference generation for system-level harmonic mitigation in a diesel-electric ship using non-linear model predictive control. , 2015, , .		9
160	Dynamic analysis of an on-board DC distribution system with active stabilizer. , 2015, , .		5
161	Oscillatory phenomena between wind farms and HVDC systems: The impact of control. , 2015, , .		26
162	Stability of DC voltage droop controllers in VSC HVDC systems. , 2015, , .		11

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163	Impedance based stability analysis of VSC-based HVDC system. , 2015, , .		16
164	The Role of Storage in Emerging Country Scenarios. Energy Procedia, 2015, 73, 112-123.	1.8	2
165	Extended stability range of weak grids with Voltage Source Converters through impedance-conditioned grid synchronization. , 2015, , .		29
166	The Marine Vesselâ€™s Electrical Power System: From its Birth to Present Day. Proceedings of the IEEE, 2015, 103, 2410-2424.	16.4	70
167	Asymmetrical Fault Ride Through as Ancillary Service by Constant Power Loads in Grid-Connected Wind Farm. IEEE Transactions on Power Electronics, 2015, 30, 1704-1713.	5.4	34
168	Large Signal Stability Analysis at the Common Coupling Point of a DC Microgrid: A Grid Impedance Estimation Approach Based on a Recursive Method. IEEE Transactions on Energy Conversion, 2015, 30, 122-131.	3.7	60
169	Feasibility study of a solar photovoltaic water pumping system for rural Ethiopia. AIMS Environmental Science, 2015, 2, 697-717.	0.7	11
170	Shaping the Current Waveform of an Active Filter for Optimized System Level Harmonic Conditioning. , 2015, , .		7
171	MMC circulating current reference calculation in ABC frame by means of Lagrange Multipliers for ensuring constant DC power under unbalanced grid conditions. , 2014, , .		13
172	Implementation and analysis of a control scheme for damping of oscillations in VSC-based HVDC grids. , 2014, , .		30
173	Small-signal stability study of the Cigré DC grid test system with analysis of participation factors and parameter sensitivity of oscillatory modes. , 2014, , .		20
174	Competitiveness of grid connected photovoltaic power supply for a desalination plant under a prospective power market in Paraguay. , 2014, , .		1
175	Reliability analysis of IGBT Inverter for Wave Energy Converter with focus on thermal cycling. , 2014, , .		6
176	A study of biomass in a hybrid stand-alone Micro-Grid for the rural village of Wawashang, Nicaragua. , 2014, , .		7
177	Self-sustained all-electric wave energy converter system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1705-1721.	0.5	3
178	Stability analysis of interconnected AC power systems with multiterminal DC grids based on the CigrÃ© DC grid test system. , 2014, , .		16
179	Transformer-Less Series Reactive/Harmonic Compensation of Line-Commutated HVDC for Offshore Wind Power Integration. IEEE Transactions on Power Delivery, 2014, 29, 353-361.	2.9	8
180	Stability evaluation of a DC micro-grid and future interconnection toÂan AC system. Renewable Energy, 2014, 62, 649-656.	4.3	32

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181	Moving towards the Smart Grid: The Norwegian case. , 2014, , .		6
182	System design and load profile shaping for a Reverse Osmosis desalination plant powered by a stand-alone PV system in Pozo Colorado, Paraguay. , 2014, , .		3
183	A discrete-time tool to analyze the stability of weakly filtered active front-end PWM converters. , 2014, , .		9
184	Power quality enhancement by power electronic generation interface under non-ideal voltage conditions. , 2014, , .		0
185	A Generalized Power Control Approach in ABC Frame for Modular Multilevel Converter HVDC Links Based on Mathematical Optimization. IEEE Transactions on Power Delivery, 2014, 29, 386-394.	2.9	61
186	Conditions for Existence of Equilibria of Systems With Constant Power Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2204-2211.	3.5	65
187	Degree of Influence of System States Transition on the Stability of a DC Microgrid. IEEE Transactions on Smart Grid, 2014, 5, 2535-2542.	6.2	43
188	Multi-objective Design of a Modular Power Converter based on Medium Frequency AC-link for Offshore DC Wind Park. Energy Procedia, 2013, 35, 265-273.	1.8	1
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