

Maria Marta Molinas Cabrera

List of Publications by Year in descending order

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323
papers

8,330
citations

53660

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80
g-index

331
all docs

331
docs citations

331
times ranked

5087
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of Multi-MW Wind Turbines and Wind Parks. IEEE Transactions on Industrial Electronics, 2011, 58, 1081-1095.	5.2	726
2	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
3	Low Voltage Ride Through of Wind Farms With Cage Generators: STATCOM Versus SVC. IEEE Transactions on Power Electronics, 2008, 23, 1104-1117.	5.4	362
4	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
5	An Energy-Based Controller for HVDC Modular Multilevel Converter in Decoupled Double Synchronous Reference Frame for Voltage Oscillation Reduction. IEEE Transactions on Industrial Electronics, 2013, 60, 2360-2371.	5.2	224
6	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
7	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
8	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
9	Past, Present, and Future Challenges of the Marine Vessel's Electrical Power System. IEEE Transactions on Transportation Electrification, 2016, 2, 522-537.	5.3	153
10	An All-DC Offshore Wind Farm With Series-Connected Turbines: An Alternative to the Classical Parallel AC Model?. IEEE Transactions on Industrial Electronics, 2013, 60, 2420-2428.	5.2	141
11	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
12	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
13	Offshore Wind Farm Grid Integration by VSC Technology With LCC-Based HVDC Transmission. IEEE Transactions on Sustainable Energy, 2012, 3, 899-907.	5.9	121
14	Effect of Control Strategies and Power Take-Off Efficiency on the Power Capture From Sea Waves. IEEE Transactions on Energy Conversion, 2011, 26, 1088-1098.	3.7	120
15	StatCom control at wind farms with fixed-speed induction generators under asymmetrical grid faults. IEEE Transactions on Industrial Electronics, 2013, 60, 2864-2873.	5.2	119
16	Impedance-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
17	A Study of Efficiency in a Reduced Matrix Converter for Offshore Wind Farms. IEEE Transactions on Industrial Electronics, 2012, 59, 184-193.	5.2	103
18	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

#	ARTICLE	IF	CITATIONS
19	Subsynchronous oscillation mechanism and its suppression in MMC-based HVDC connected wind farms. IET Generation, Transmission and Distribution, 2018, 12, 1021-1029.	1.4	88
20	Integration of Offshore Wind Farm Using a Hybrid HVDC Transmission Composed by the PWM Current-Source Converter and Line-Commutated Converter. IEEE Transactions on Energy Conversion, 2013, 28, 125-134.	3.7	87
21	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
22	Extending the Life of Gear Box in Wind Generators by Smoothing Transient Torque With STATCOM. IEEE Transactions on Industrial Electronics, 2010, 57, 476-484.	5.2	79
23	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
24	Impedance and Noise of Passive and Active Dry EEG Electrodes: A Review. IEEE Sensors Journal, 2020, 20, 14565-14577.	2.4	77
25	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
26	High-Power Machines and Starter-Generator Topologies for More Electric Aircraft: A Technology Outlook. IEEE Access, 2020, 8, 130104-130123.	2.6	74
27	The Marine Vessel's Electrical Power System: From its Birth to Present Day. Proceedings of the IEEE, 2015, 103, 2410-2424.	16.4	70
28	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
29	Approaches to Economic Energy Management in Diesel-Electric Marine Vessels. IEEE Transactions on Transportation Electrification, 2017, 3, 22-35.	5.3	69
30	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
31	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
32	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
33	Optimal Sizing of Energy Storage Systems for Shipboard Applications. IEEE Transactions on Energy Conversion, 2019, 34, 801-811.	3.7	66
34	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
35	STATCOM-Based Indirect Torque Control of Induction Machines During Voltage Recovery After Grid Faults. IEEE Transactions on Power Electronics, 2010, 25, 1240-1250.	5.4	62
36	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

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37	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
38	Modelling and Control of the Modular Multilevel Converter (MMC). Energy Procedia, 2012, 20, 227-236.	1.8	56
39	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
40	Tunable Control Strategy for Wave Energy Converters With Limited Power Takeoff Rating. IEEE Transactions on Industrial Electronics, 2012, 59, 3838-3846.	5.2	55
41	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
42	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
43	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
44	EEG Channel-Selection Method for Epileptic-Seizure Classification Based on Multi-Objective Optimization. Frontiers in Neuroscience, 2020, 14, 593.	1.4	49
45	Simplified models of a single-phase power electronic inverter for railway power system stability analysis – Development and evaluation. Electric Power Systems Research, 2010, 80, 204-214.	2.1	47
46	Power Collection from Wave Energy Farms. Applied Sciences (Switzerland), 2013, 3, 420-436.	1.3	45
47	A power conversion system for offshore wind parks. , 2008, , .		44
48	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
49	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
50	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
51	Exploring the Potential for Increased Production from the Wave Energy Converter Lifesaver by Reactive Control. Energies, 2013, 6, 3706-3733.	1.6	38
52	Frequency-domain modelling and stability analysis of a DFIG-based wind energy conversion system under non-compensated AC grids: impedance modelling effects and consequences on stability. IET Power Electronics, 2019, 12, 907-914.	1.5	36
53	Power electronics as grid interface for actively controlled wave energy converters. , 2007, , .		35
54	Tuning of control loops for grid connected voltage source converters. , 2008, , .		35

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55	A generalized compensation theory for active filters based on mathematical optimization in ABC frame. <i>Electric Power Systems Research</i> , 2012, 90, 1-10.	2.1	35
56	Interaction of Droop Control Structures and Its Inherent Effect on the Power Transfer Limits in Multiterminal VSC-HVDC. <i>IEEE Transactions on Power Delivery</i> , 2017, 32, 182-192.	2.9	35
57	Control of a Type-IV Wind Turbine With the Capability of Robust Grid-Synchronization and Inertial Response for Weak Grid Stable Operation. <i>IEEE Access</i> , 2019, 7, 58553-58569.	2.6	35
58	Asymmetrical Fault Ride Through as Ancillary Service by Constant Power Loads in Grid-Connected Wind Farm. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 1704-1713.	5.4	34
59	Control of DC-capacitor peak voltage in reduced capacitance single-phase STATCOM. , 2016, , .		34
60	Discrete-Time Modeling, Stability Analysis, and Active Stabilization of DC Distribution Systems With Multiple Constant Power Loads. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 4888-4898.	3.3	34
61	Localization of Active Brain Sources From EEG Signals Using Empirical Mode Decomposition: A Comparative Study. <i>Frontiers in Integrative Neuroscience</i> , 2018, 12, 55.	1.0	34
62	Generalized MIMO Sequence Impedance Modeling and Stability Analysis of MMC-HVDC With Wind Farm Considering Frequency Couplings. <i>IEEE Access</i> , 2020, 8, 55602-55618.	2.6	34
63	Superconducting Magnetic Energy Storage (SMES) in power systems with renewable energy sources. , 2010, , .		33
64	Stability evaluation of a DC micro-grid and future interconnection to an AC system. <i>Renewable Energy</i> , 2014, 62, 649-656.	4.3	32
65	Repetitive Control Based Phase Voltage Modulation Amendment for FOC-Based Five-Phase PMSMs Under Single-Phase Open Fault. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 1949-1960.	5.2	32
66	Implementation and analysis of a control scheme for damping of oscillations in VSC-based HVDC grids. , 2014, , .		30
67	System-Wide Harmonic Mitigation in a Diesel-Electric Ship by Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 4008-4019.	5.2	30
68	Comparative Study of Wind Turbine Power Converters Based on Medium-Frequency AC-Link for Offshore DC-Grids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015, 3, 525-541.	3.7	29
69	Extended stability range of weak grids with Voltage Source Converters through impedance-conditioned grid synchronization. , 2015, , .		29
70	Damping region extension for digitally controlled LCL-type grid-connected inverter with capacitor current feedback. <i>IET Power Electronics</i> , 2018, 11, 1974-1982.	1.5	29
71	Multi-objective optimization for EEG channel selection and accurate intruder detection in an EEG-based subject identification system. <i>Scientific Reports</i> , 2020, 10, 5850.	1.6	29
72	Improved grid interface of induction generators for renewable energy by use of STATCOM. , 2007, , .		27

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73	Coordinated control of series-connected offshore wind park based on matrix converters. Wind Energy, 2012, 15, 827-845.	1.9	27
74	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
75	Constant power loads in AC distribution systems: An investigation of stability. , 2008, , .		26
76	Optimal LQG Controller for Variable Speed Wind Turbine Based on Genetic Algorithms. Energy Procedia, 2012, 20, 207-216.	1.8	26
77	Oscillatory phenomena between wind farms and HVDC systems: The impact of control. , 2015, , .		26
78	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
79	A simple method for analytical evaluation of LVRT in wind energy for induction generators with STATCOM or SVC. , 2007, , .		25
80	Reactive Power Ancillary Service by Constant Power Loads in Distributed AC Systems. IEEE Transactions on Power Delivery, 2013, 28, 920-927.	2.9	25
81	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
82	Investigation on the role of power electronic controlled constant power loads for voltage support in distributed AC systems. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	23
83	Mitigating DC-side power oscillations and negative sequence load currents in Modular Multilevel Converters under unbalanced faults- first approach using resonant PI. , 2012, , .		23
84	Impedance modeling of modular multilevel converters. , 2015, , .		22
85	Impact of state-space modelling fidelity on the small-signal dynamics of VSC-HVDC systems. , 2015, , .		22
86	Low-Density EEG for Neural Activity Reconstruction Using Multivariate Empirical Mode Decomposition. Frontiers in Neuroscience, 2020, 14, 175.	1.4	22
87	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
88	Centralized stabilizer for marine DC microgrid. , 2013, , .		21
89	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
90	Analysis of power extraction from irregular waves by all-electric power take off. , 2010, , .		20

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91	Small-signal stability study of the Cigré DC grid test system with analysis of participation factors and parameter sensitivity of oscillatory modes. , 2014, , .		20
92	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
93	EMD Mode Mixing Separation of Signals with Close Spectral Proximity in Smart Grids. , 2018, , .		19
94	Loss and Rating Considerations of a Wind Energy Conversion System with Reactive Compensation by Magnetic Energy Recovery Switch (MERS). , 2008, , .		18
95	Electrical Machines and Power Electronics For Starter-Generators in More Electric Aircrafts: A Technology Review. , 2019, , .		18
96	Impact of control strategies on the rating of electric power take off for Wave Energy conversion. , 2010, , .		17
97	Assessment of a stability analysis tool for constant power loads in DC-grids. , 2012, , .		17
98	The role of electrical energy storage in sub-Saharan Africa. Journal of Energy Storage, 2016, 8, 287-299.	3.9	17
99	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
100	A controller in d-q synchronous reference frame for hybrid HVDC transmission system. , 2010, , .		16
101	Stability analysis of interconnected AC power systems with multiterminal DC grids based on the CigrÃ© DC grid test system. , 2014, , .		16
102	Impedance based stability analysis of VSC-based HVDC system. , 2015, , .		16
103	Impedance-Based Stability Evaluation of Virtual Synchronous Machine Implementations in Converter Controllers. , 2018, , .		16
104	Wind farms with increased transient stability margin provided by a STATCOM. , 2006, , .		15
105	Reduced matrix converter operated as current source for off-shore wind farms. , 2010, , .		15
106	Impedance-based and eigenvalue based stability assessment compared in VSC-HVDC system. , 2016, , .		15
107	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
108	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

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109	Projections of Cyberattacks on Stability of DC Microgrids Modeling Principles and Solution. IEEE Transactions on Power Electronics, 2022, 37, 11774-11786.	5.4	15
110	Effects and mitigation of post-fault commutation failures in line-commutated HVDC transmission system. , 2009, , .		14
111	High frequency wind energy conversion from the ocean. , 2010, , .		14
112	Comparative investigation of losses in a reduced matrix converter for off-shore wind turbines. , 2010, , .		14
113	Finite Control Set Model Predictive Control of a shunt active power filter. , 2013, , .		14
114	Discrete-time modelling, stability analysis, and active stabilization of dc distribution systems with constant power loads. , 2015, , .		14
115	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
116	Impact of operation principle on the losses of a reduced matrix converter for offshore wind parks. , 2010, , .		13
117	A model-based controller in rotating reference frame for Hybrid HVDC. , 2010, , .		13
118	Stability investigation of control system for power electronic converter acting as load interface in AC distribution system. , 2011, , .		13
119	MMC circulating current reference calculation in ABC frame by means of Lagrange Multipliers for ensuring constant DC power under unbalanced grid conditions. , 2014, , .		13
120	Energy management and stabilization of a hybrid DC microgrid for transportation applications. , 2016, , .		13
121	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
122	Guest Editorial: Oscillations in Power Systems with High Penetration of Renewable Power Generations. IET Renewable Power Generation, 2019, 13, 1-3.	1.7	13
123	Torque transient alleviation in fixed speed wind generators by Indirect Torque Control with STATCOM. , 2008, , .		12
124	Matrix converter efficiency in a high frequency link offshore WECS. , 2011, , .		12
125	Hybrid HVDC connection of large offshore wind farms to the AC grid. , 2012, , .		12
126	A Transformerless Series Reactive/Harmonic Compensator for Line-Commutated HVDC for Grid Integration of Offshore Wind Power. IEEE Transactions on Industrial Electronics, 2013, 60, 2410-2419.	5.2	12

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127	Conditions for existence of equilibrium points of systems with constant power loads. , 2013, , .		12
128	Self-synchronisation of wind farm in MMC-based HVDC system. , 2016, , .		12
129	Stability analysis of hybrid AC/DC power systems for more electric aircraft. , 2016, , .		12
130	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
131	The Impact of Time-â€“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
132	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
133	Power electronics modeling fidelity: Impact on stability estimate of micro-grid systems. , 2011, , .		11
134	Voltage control of a StatCom at a fixed speed wind farm under unbalanced grid faults. , 2011, , .		11
135	Exploring the range of impedance conditioning by virtual inductance for grid connected voltage source converters. , 2012, , .		11
136	Stochastic Rating of Storage Systems in Isolated Networks with Increasing Wave Energy Penetration. Energies, 2013, 6, 2481-2500.	1.6	11
137	Stability of DC voltage droop controllers in VSC HVDC systems. , 2015, , .		11
138	A Meta-Parameterized Approach for the Evaluation of Semiconductor Technologies. IEEJ Journal of Industry Applications, 2018, 7, 210-217.	0.9	11
139	Accurate aggregated modelling of wind farm systems in modified sequence domain for stability analysis. Electric Power Systems Research, 2019, 175, 105928.	2.1	11
140	Event-related potential from EEG for a two-step Identity Authentication System. , 2019, , .		11
141	Feasibility study of a solar photovoltaic water pumping system for rural Ethiopia. AIMS Environmental Science, 2015, 2, 697-717.	0.7	11
142	A New AC Current Switch Called MERS with Low On-State Voltage IGBTs (1.54 V) for Renewable Energy and Power Saving Applications. , 2008, , .		10
143	All-electric Wave Energy Converter array with energy storage and reactive power compensation for improved power quality. , 2012, , .		10
144	Ant Colony Optimization Applied to Control of Ocean Wave Energy Converters. Energy Procedia, 2012, 20, 148-155.	1.8	9

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145	Analysis of a Scenario of Large Scale Adoption of Electrical Vehicles in Nord-trÃndelag. Energy Procedia, 2012, 20, 291-300.	1.8	9
146	Modular Multilevel Converter leg-energy controller in rotating reference frame for voltage oscillations reduction. , 2012, , .		9
147	Generalized ABC frame differential current control ensuring constant DC power for modular multilevel converters under unbalanced operation. , 2013, , .		9
148	A discrete-time tool to analyze the stability of weakly filtered active front-end PWM converters. , 2014, , .		9
149	A Flexible Power Electronics Configuration for Coupling Renewable Energy Sources. Electronics (Switzerland), 2015, 4, 283-302.	1.8	9
150	Handling system harmonic propagation in a diesel-electric ship with an active filter. , 2015, , .		9
151	Optimized current reference generation for system-level harmonic mitigation in a diesel-electric ship using non-linear model predictive control. , 2015, , .		9
152	Optimal design of air-core inductor for medium/high power DC-DC converters. , 2016, , .		9
153	Assessing High-Order Harmonic Resonance in Locomotive-Network Based on the Impedance Method. IEEE Access, 2019, 7, 68119-68131.	2.6	9
154	Frequency Fluctuations in Marine Microgrids: Origins and Identification Tools. IEEE Electrification Magazine, 2020, 8, 40-46.	1.8	9
155	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
156	A series injection strategy for reactive power compensation of line commutated HVDC for offshore wind power. , 2010, , .		8
157	Reactive power compensation using an indirectly space vector-modulated matrix converter. , 2010, , .		8
158	Reactive power compensation capability of a matrix converter-based FACTS device. , 2011, , .		8
159	All-electric wave energy Power Take Off system with improved power quality at the grid connection point. , 2012, , .		8
160	Analysis of the Power Extraction Capability for the Wave Energy Converter BOLTÂ®. Energy Procedia, 2012, 20, 156-169.	1.8	8
161	Design of a Direct Drive Wave Energy Conversion System for the Seaquest Concept. Energy Procedia, 2012, 20, 271-280.	1.8	8
162	Biogas - An alternative household cooking technique for Zambia. , 2013, , .		8

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163	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
164	Towards a Real-time Measurement Platform for Microgrids in Isolated Communities. Procedia Engineering, 2016, 159, 94-103.	1.2	8
165	Instantaneous frequency tracking of harmonic distortions for grid impedance identification based on Kalman filtering. , 2016, , .		8
166	A Data-driven Approach to Grid Impedance Identification for Impedance-based Stability Analysis under Different Frequency Ranges. , 2019, , .		8
167	Low Inductance Effects on Electric Drives using Slotless Permanent Magnet Motors: A Framework for Performance Analysis. , 2019, , .		8
168	Extremum-Seeking Control for Harmonic Mitigation in Electrical Grids of Marine Vessels. IEEE Transactions on Industrial Electronics, 2019, 66, 500-508.	5.2	8
169	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
170	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
171	A Very Low SEF Neural Amplifier by Utilizing a High Swing Current-Reuse Amplifier. , 2020, , .		8
172	Modular Multilevel Converter-energy difference controller in rotating reference frame. , 2012, , .		7
173	Large scale regional adoption of electric vehicles in Norway and the potential for using wind power as source. , 2013, , .		7
174	Introduction to the Special Section on Control and Grid Integration of Wind Energy Systems - Part II. IEEE Transactions on Industrial Electronics, 2013, 60, 2774-2775.	5.2	7
175	Electric vehicles charging in a smart microgrid supplied with wind energy. , 2013, , .		7
176	A study of biomass in a hybrid stand-alone Micro-Grid for the rural village of Wawashang, Nicaragua. , 2014, , .		7
177	Management of harmonic propagation in a marine vessel by use of optimization. , 2015, , .		7
178	Real-time stability analysis of power electronic systems. , 2016, , .		7
179	Apparent impedance analysis: A new method for power system stability analysis. , 2016, , .		7
180	Stabilization control methods for enhancing the stability of wind farm integration via an MMC-based HVDC system. , 2017, , .		7

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181	Harmonic State Space Modeling and Analysis of Modular Multilevel Converter. , 2018, , .		7
182	Frequency Domain Modelling for Assessment of Hilbert and SOGI Based Single-Phase Synchronisation. , 2019, , .		7
183	Comparative Eigenvalue Analysis of Synchronous Machine Emulations and Synchronous Machines. , 2019, , .		7
184	Robust Wind Turbine System Against Voltage Sag with Induction Generators Interfaced to the Grid by Power Electronic Converters. IEEJ Transactions on Industry Applications, 2006, 126, 865-871.	0.1	7
185	Shaping the Current Waveform of an Active Filter for Optimized System Level Harmonic Conditioning. , 2015, , .		7
186	Loss and Rating Considerations of a Wind Energy Conversion System with Reactive Compensation by Magnetic Energy Recovery Switch (MERS). EPE Journal (European Power Electronics and Drives) Tj ETQq0 0 0 rgBT Overlock 40 Tf 50 53		7
187	Power collection array for improved wave farm output based on reduced matrix converters. , 2010, , .		6
188	Operation features of a reduced matrix converter for offshore wind power. , 2010, , .		6
189	A direct power control for Hybrid HVDC transmission systems. , 2011, , .		6
190	All-electric wave energy converter connected in array with common DC-link for improved power quality. , 2012, , .		6
191	Comparative study of the converter efficiency and power density in offshore wind energy conversion system with single-phase transformer. , 2012, , .		6
192	Identifying Unstable Region of Operation in a Micro-grid System. Energy Procedia, 2012, 20, 237-246.	1.8	6
193	Speed regulation of a wind turbine with current source or matrix converter: Tuning procedure. , 2012, , .		6
194	Extending the reactive compensation range of a direct AC-AC FACTS device for offshore grids. Electric Power Systems Research, 2012, 89, 183-190.	2.1	6
195	Optimal control for an HVDC system with series connected offshore wind turbines. , 2013, , .		6
196	Reliability analysis of IGBT Inverter for Wave Energy Converter with focus on thermal cycling. , 2014, , .		6
197	Moving towards the Smart Grid: The Norwegian case. , 2014, , .		6
198	Global Tracking Passivity-based PI Control of Bilinear Systems and its Application to the Boost and Modular Multilevel Converters- 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

#	ARTICLE	IF	CITATIONS
199	Analysis of neural activity from EEG data based on EMD frequency bands. , 2017, , .		6
200	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
201	Oscillation analysis of low-voltage distribution systems with high penetration of photovoltaic generation. Electrical Engineering, 2021, 103, 1141-1154.	1.2	6
202	Wind farms with increased transient stability margin provided by a STATCOM. , 2006, , .		6
203	Ride-through enhancement of line-commutated HVDC link for large offshore wind parks. , 2009, , .		5
204	Double input AC/AC nine-switch converter for multiple-generator drivetrain configuration in wind turbines. , 2010, , .		5
205	Optimal use of power electronic interfaces for loads in distributed systems. , 2010, , .		5
206	Integration of Offshore Wind Farm Using a Hybrid HVDC Transmission Composed by PWM Current-Source Converter and Line-Commutated Converter. , 2012, , .		5
207	A Simple Procedure to Evaluate the Efficiency and Power Density of Power Conversion Topologies for Offshore Wind Turbines. Energy Procedia, 2012, 24, 202-211.	1.8	5
208	A generalized power control approach in ABC frame for modular Multilevel Converters based on mathematical optimization. , 2012, , .		5
209	Shunt active filtering by constant power load in microgrid based on IRP p-q and CPC reference signal generation schemes. , 2012, , .		5
210	Introduction to the Special Section on Control and Grid Integration of Wind Energy Systemsâ€”Part I. IEEE Transactions on Industrial Electronics, 2013, 60, 2358-2359.	5.2	5
211	Analysis of Modular Multilevel Converters under unbalanced grid conditions with different load current control strategies and Lagrange-based differential current control. , 2013, , .		5
212	Dynamic analysis of an on-board DC distribution system with active stabilizer. , 2015, , .		5
213	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
214	Analysis of Bifurcation Behaviors in MMC Connected to a Weak Grid. , 2018, , .		5
215	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
216	Forced commutation through series voltage injection for reactive power reduction of line commutated HVDC converter terminal. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
217	Annual energy and power quality from an all-electric Wave Energy Converter array. , 2012, , .		4
218	Loss comparison of matrix and back-to-back converters for offshore WECS. , 2012, , .		4
219	Optimized design of wind energy conversion systems with single-phase AC-link. , 2012, , .		4
220	Mitigation of Asymmetrical Grid Faults in Induction Generator-Based Wind Turbines Using Constant Power Load. Energies, 2013, 6, 1700-1717.	1.6	4
221	Improving the dynamics of lagrange-based MMC controllers by means of adaptive filters for single-phase voltage, power and energy estimation. , 2013, , .		4
222	A generalized power control approach in ABC frame for modular multilevel converters based on Lagrange multipliers. , 2013, , .		4
223	Comparative study of semiconductor devices based on a meta-parameterised approach: SiC MOSFET vs Si IGBT technologies. , 2016, , .		4
224	High frequency wind energy conversion system for offshore DC collection grid " Part II: Efficiency improvements. Sustainable Energy, Grids and Networks, 2016, 5, 177-185.	2.3	4
225	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
226	Modified Current-reuse OTA to Achieve High CMRR by utilizing Cross-coupled Load. , 2019, , .		4
227	Hybrid Technique for the Analysis of Non-Linear and Non-Stationary Signals focused on Power Quality. , 2019, , .		4
228	Analyzing the Recognition of Color Exposure and Imagined Color from EEG Signals. , 2019, , .		4
229	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
230	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
231	Defining Three Distribution System Scenarios for Microgrid Applications. , 2020, , .		4
232	Control design and experimental verification of a series compensated 50 kW permanent magnet wind power generator. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	3
233	Loss minimization in AC distribution system with high share of power electronic loads providing ancillary reactive power. , 2011, , .		3
234	Modeling of switching power interfaces for smart-grid stability studies. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
235	A control strategy for series connected offshore wind turbines. , 2011, , .		3
236	Analysis and performance comparison of different power conditioning systems for SMES-based energy systems in wind turbines. , 2012, , .		3
237	Properties of reactive current injection by AC power electronic systems for loss minimization. , 2012, , .		3
238	Assessing the validity of a propose stability analysis method in a three phase system with constant power load. , 2012, , .		3
239	Comparison of wind energy conversion systems based on high frequency AC-Link: Three-phase Vs. single-phase. , 2012, , .		3
240	Real-time compression of measurements in distribution grids. , 2012, , .		3
241	Bifurcation in PWM converter-based systems with wireless communication-based current controller. , 2013, , .		3
242	Matrix converter modulation for series-connected wind turbines with high frequency link. , 2013, , .		3
243	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
244	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
245	Tool for detecting waveform distortions in inverter-based microgrids: A validation study. , 2016, , .		3
246	Stability influence of renewable energy systems: Connection to DC nanogrids. , 2016, , .		3
247	Simple model for understanding harmonics propagation in single-phase microgrids. , 2017, , .		3
248	Phasor Estimation Based on Modified Recursive Prony. , 2018, , .		3
249	Sex differences observed in a study of EEG of linguistic activity and resting-state: Exploring optimal EEG channel configurations. , 2019, , .		3
250	Sustainable model for rural electrification projects in Non-Interconnected Areas in Colombia. , 2019, , .		3
251	Switching sequences for non-predictive declutching control of wave energy converters. IFAC-PapersOnLine, 2020, 53, 12295-12300.	0.5	3
252	Aplicaci3n de la transformada de Hilbert-Huang en el an3lisis de se3ales de comunicaci3n satelital. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 181.	0.6	3

#	ARTICLE	IF	CITATIONS
253	Design of an arch-shaped FSPM Generator for the Seaquest Concept. , 2012, , .		2
254	Transformer-less series voltage injection for reactive power compensation of line-commutated HVDC. , 2012, , .		2
255	Modeling and simulation of wireless communication based robust controller for multi-converter systems. , 2013, , .		2
256	Frequency scanning of power electronic-based smart grids: The modular multilevel converter application. , 2013, , .		2
257	Hybrid micro grid feasibility study for the Wawashang Complex in Nicaragua. , 2013, , .		2
258	A controllable distributed energy resource with active filtering capability based on online harmonic detection. , 2013, , .		2
259	The Role of Storage in Emerging Country Scenarios. Energy Procedia, 2015, 73, 112-123.	1.8	2
260	Frequency-dependent source and load impedances in power systems based on power electronic converters. , 2016, , .		2
261	Active power flow direction effect on stability in multi-terminal VSC-HVDC transmission system in integrating wind farm. , 2016, , .		2
262	Meta-parameterisation of power semiconductor devices for studies of efficiency and power density in high power converters. , 2016, , .		2
263	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
264	The Marine Electrical Revolution: Battery Power at Sea [About This Issue]. IEEE Electrification Magazine, 2017, 5, 2-3.	1.8	2
265	Design and Implementation of a Monitoring System for Decision Support in a Micro-Business Based on Solar Energy Microgrid in Rural Colombia. , 2018, , .		2
266	Impact of Virtual Oscillator Control on the instantaneous properties of VSC output voltage in distorted island grids. , 2019, , .		2
267	A Fully Tunable Low-power Low-noise and High Swing EMG Amplifier with 8.26 PEF. , 2020, , .		2
268	A Power Efficient, High Gain and High Input Impedance Capacitively-coupled Neural Amplifier. , 2020, , .		2
269	Impact of digital time delay on the stable grid-hosting capacity of large-scale centralised PV plant. IET Renewable Power Generation, 2021, 15, 1422-1435.	1.7	2
270	Assessing the Impact of Idle State Type on the Identification of RGB Color Exposure for BCI. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
271	Analytical and Experimental Study of a Rotary Phase Shifter for Power System Applications. IEEJ Transactions on Power and Energy, 2000, 120, 1336-1342.	0.1	2
272	Low-density EEG for Source Activity Reconstruction using Partial Brain Models. , 2020, , .		2
273	Impact of inverter digital time delay on the harmonic characteristics of grid-connected large-scale photovoltaic system. IET Renewable Power Generation, 2020, 14, 3809-3815.	1.7	2
274	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
275	Analysis of Power Electronics-Dominated Hybrid AC/DC Grid for Data-Driven Oscillation Diagnosis. , 2022, , .		2
276	Impedance-Based Stability Analysis of Systems with the Dominant Presence of Distributed Power Sources. , 2022, , .		2
277	Flywheel effect in power plants with an induction frequency converter. , 0, , .		1
278	A proposal of nuclear fusion power plant equipped with SMES. Fusion Engineering and Design, 2000, 51-52, 351-355.	1.0	1
279	Direct AC/AC power converter for wind power application. , 2010, , .		1
280	Optimal control of a reduced matrix converter for off-shore wind parks. , 2011, , .		1
281	A flexible and optimal power theory for reactive power compensation in ABC frame. , 2011, , .		1
282	Regulated DC link voltage with smaller DC link capacitor in Peng's generalized theory of instantaneous reactive power. , 2011, , .		1
283	Evaluation of non-active current compensation in smart grids. , 2012, , .		1
284	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
285	Thermal analysis of matrix and Back-To-Back converters for series-connected wind turbines. , 2013, , .		1
286	A modular simulation platform for testing hybrid DC/AC future grid solutions for remote areas. , 2013, , .		1
287	Evaluation of the system parameters degree of influence on the stability of a DC microgrid. , 2013, , .		1
288	Seamless control of distributed multi-converter system with high power quality. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
289	Stability assessment of distributed multiconverter systems in automated grid. , 2013, , .		1
290	Competitiveness of grid connected photovoltaic power supply for a desalination plant under a prospective power market in Paraguay. , 2014, , .		1
291	A methodology for supporting the planning of microgrids based on composable tools: A case in Bhutan. , 2015, , .		1
292	Instantaneous Frequencies of Continuous Blood Pressure a Comparison of the Power Spectrum, the Continuous Wavelet Transform and the Hilbert-Huang Transform. Advances in Data Science and Adaptive Analysis, 2017, 09, 1750009.	0.2	1
293	Real Time Phasor Estimation Based on Recursive Prony with Several Channels of One PMU. , 2018, , .		1
294	Automatic Selection of Frequency Bands for Electroencephalographic Source Localization. , 2019, , .		1
295	Modified Single-Machine Aggregation of Wind Farms Based on Parameter Identification of the Impedance Network. , 2019, , .		1
296	Discriminating between Color Exposure and Idle State using EEG Signals for BCI Application. , 2019, , .		1
297	Stability Analysis of the Proportional-Resonant Controller in Single Phase Converters. , 2019, , .		1
298	Evaluation of wave-frequency motions extraction from dynamic positioning measurements using the empirical mode decomposition. , 2019, , .		1
299	High dynamic speed control of the Subsea Smart Electrical Actuator for a Gas Production System. , 2020, , .		1
300	Relevance-based Channel Selection for EEG Source Reconstruction: An Approach to Identify Low-density Channel Subsets. , 2022, , .		1
301	Impedance scanning with chirps for single-phase converters. , 2022, , .		1
302	Instability Mode Recognition of Grid-Tied Voltage Source Converters with Nonstationary Signal Analysis. , 2022, , .		1
303	Application of conservative power theory for active power filtering of line-commutated HVDC for offshore wind power. , 2011, , .		0
304	A current-coupled topology for grid integration of wind turbines in Micro-Grids. , 2012, , .		0
305	Modulation features of a high-frequency conversion system for wind farm applications. , 2012, , .		0
306	Comparative study of the efficiency and power density of offshore WECS with three-phase AC-link. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
307	A method for optimizing the offer price of collaborative power generators. , 2013, , .		0
308	A comparison of WECS based on medium frequency AC-link for offshore DC Wind Park. , 2013, , .		0
309	A binary ACO for controlling all-electric power take off system in wave energy converters. International Journal of Renewable Energy Technology, 2013, 4, 172.	0.2	0
310	Power quality enhancement by power electronic generation interface under non-ideal voltage conditions. , 2014, , .		0
311	Electro-mechanical model for understanding the operation and dynamic behavior of a micro-grid: A case study in Tanzania. , 2015, , .		0
312	Data-Driven decision support tool for power quality measures in marine vessel power system. , 2016, , .		0
313	Guest Editorial Energy Conversion in Next-generation Electric Ships. IEEE Transactions on Energy Conversion, 2017, 32, 735-736.	3.7	0
314	Battery modeling and Kalman filter-based State-of-Charge estimation for a race car application. , 2017, , .		0
315	Impact of time varying angular frequency on the separation of instantaneous power components in stand-alone power systems. , 2017, , .		0
316	Microgrid design: sensitivity on models and parameters. , 2019, , .		0
317	Non-filter position sensorless control based on a $\hat{I}_d\text{-}\hat{I}_q$ frame complex PI controller. , 2019, , .		0
318	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
319	A Two-stage Area-efficient High Input Impedance CMOS Amplifier for Neural Signals. , 2021, , .		0
320	A Low-power High-gain Inverter Stacking Amplifier with Rail-to-Rail Output. , 2021, , .		0
321	Automatic Onset Detection of Rapid Eye Movements in REM Sleep EEG Data. IFAC-PapersOnLine, 2021, 54, 257-262.	0.5	0
322	High Input Impedance Capacitively-coupled Neural Amplifier and Its Boosting Principle. , 2020, , .		0
323	Complex vector analysis of a sensorless controlled three-phase motor drive and improvements by minimizing the observer order. , 2020, , .		0