

Josep Pou

List of Publications by Year in Descending Order

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

293 papers	10,058 citations	49 h-index	93 g-index
350 ext. papers	13,066 ext. citations	6.5 avg, IF	6.58 L-index

#	Paper	IF	Citations
293	Control of Distributed Photovoltaic Inverters for Frequency Support and System Recovery. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 4742-4750	7.2	5
292	A Novel Fault-Tolerant Operation Approach for the Modular Multilevel Converter-Based STATCOM with the Enhanced Operation Capability. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	0
291	Decoupled Control Scheme for THD Reduction and One Specific Harmonic Elimination in the Modular Multilevel Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
290	Review, Classification and Loss Comparison of Modular Multilevel Converter Submodules for HVDC Applications. <i>Energies</i> , 2022 , 15, 1985	3.1	2
289	Global Flexible Power Point Tracking in Photovoltaic Systems under Partial Shading Conditions. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
288	DC Shipboard Microgrids with Constant Power Loads: A Review of Advanced Nonlinear Control Strategies and Stabilization Techniques. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	3
287	Operation of the Low-Capacitance Cascaded H-Bridge StatCom under Grid Voltage Swells. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
286	A Constrained Inter-Submodule State-of-Charge Balancing Method for Battery Energy Storage Systems Based on the Cascaded H-Bridge Converter. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
285	Dual-Layer Pulsewidth Modulation Technique for Average Neutral Point Current Control in Neutral-Point-Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	
284	Grid-Following Voltage Source Converters: Basic Schemes and Current Control Techniques to Operate With Unbalanced Voltage Conditions. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2021 , 2, 528-544	3.6	2
283	Assessment of Low-loss Configurations for Efficiency Improvement in Hybrid Modular Multilevel Converters. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
282	Fuzzy Lifetime Analysis of a Fault-Tolerant Two-Phase Interleaved Converter 2021 ,		1
281	Unbalanced Active Power Distribution of Cascaded Multilevel Converter-Based Battery Energy Storage Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
280	Active Disturbance Rejection Control Using Artificial Neural Network for Dual-Active-Bridge-Based Energy Storage System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
279	Analysis and Mitigation of the Common-Mode Noise in a Three-Phase SiC-Based Brushless DC Motor Drive With 120° Conduction Mode. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	0
278	Nine-Level Nine-Switch Common-Ground Switched-Capacitor Inverter Suitable for High-Frequency AC-Microgrid Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	4
277	Capacitor Condition Monitoring for the Low-Capacitance StatCom: An Online Approach. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	2

276	A Dual-Mode Modulation Technique for Controlling the Average Neutral Point Current in Neutral-Point-Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6079-6091	7.2	4
275	Simplified Hybrid Control Strategy for Stand-Alone DC Microgrid with Photovoltaic System to Extend Battery Lifespan 2021 ,		1
274	Binary Search Based Flexible Power Point Tracking Algorithm for Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5909-5920	8.9	14
273	Extended ZCS Region of AAC-HVDC Systems Through On-Load Tap Changer Coordination. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5497-5506	8.9	2
272	Noise-Immune Model Identification and State-of-Charge Estimation for Lithium-Ion Battery Using Bilinear Parameterization. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 312-323	8.9	73
271	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 454-465	8.9	8
270	Cascaded H-Bridge Low Capacitance Static Compensator With Modular Switched Capacitors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5944-5954	8.9	7
269	First-Fault Detection in DC Distribution With IT Grounding Based on Sliding Discrete Fourier-Transform. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3649-3654	7.2	3
268	Analytical Derivation of Intersubmodule Active Power Disparity Limits in Modular Multilevel Converter-Based Battery Energy Storage Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2864-2874	7.2	9
267	Cascaded- and Modular-Multilevel Converter Laboratory Test System Options: A Review. <i>IEEE Access</i> , 2021 , 9, 44718-44737	3.5	3
266	Deep Deterministic Policy Gradient-DRL Enabled Multiphysics-Constrained Fast Charging of Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	38
265	State-of-Health Estimation of Lithium-Ion Batteries by Fusing an Open Circuit Voltage Model and Incremental Capacity Analysis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	14
264	Hybrid Modulation Strategy for the Vienna Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
263	Operating Limits for Low-Capacitance Cascaded H-Bridge Static Compensators. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	2
262	Discontinuous Modulation of a Cascaded H-Bridge Low-Capacitance StatCom. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
261	Effect of Capacitor Voltage Ripples on Submodule Active Power Control Limits of Cascaded Multilevel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
260	2021 ,		1
259	Performance Improvement of a Three-Phase Interleaved DCDC Converter Without Requiring Antisaturation Control for Postfault Conditions. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 7378-7383	7.2	7

258	Flexible Power Point Tracking for Solar Photovoltaic Systems Using Secant Method. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9419-9429	7.2	10
257	Minimizing Energy Storage Utilization in a Stand-Alone DC Microgrid Using Photovoltaic Flexible Power Control. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3755-3764	10.7	6
256	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10788-10800	7.2	7
255	Signal-Disturbance Interfacing Elimination for Unbiased Model Parameter Identification of Lithium-Ion Battery. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5887-5897	11.9	23
254	A Control Strategy for Dual-Input Neutral-Point-Clamped Inverter-Based Grid-Connected Photovoltaic System. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9743-9757	7.2	3
253	Analysis and Optimization of Modulation Transitions in Medium-Voltage High-Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9984-9993	7.2	1
252	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 14312-14328	7.2	
251	Sequential Phase-Shifted Model Predictive Control for Modular Multilevel Converters. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	2
250	DC-Link Neutral Point Control for 3L-NPC Converters Utilizing Selective Harmonic Elimination PWM. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
249	Decoupled Modulation with Common-Mode Load-Voltage Control for Three-Phase Four-Leg Three-Level Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
248	Modular Multilevel Converters: Recent Achievements and Challenges. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2021 , 2, 224-239	3.6	27
247	Analytic Spectral Analysis Technique for Converters Operating With Oscillatory DC-Link Voltage Components. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13540-13553	7.2	2
246	Band-Limited Three-Level Modulation for Balancing Capacitor Voltages in Neutral-Point-Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9737-9752	7.2	6
245	Closed-Loop Analytic Filtering Scheme of Capacitor Voltage Ripple in Multilevel Cascaded H-Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8819-8832	7.2	12
244	Incremental Passivity Control in Multilevel Cascaded H-Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8766-8778	7.2	17
243	Optimization Design and Control of Single-Stage Single-Phase PV Inverters for MPPT Improvement. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13000-13016	7.2	24
242	Impact of Power Factor Angle in the Sub-module Losses of Modular Multilevel Converters in HVDC Applications 2020 ,		2
241	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9342-9356	7.2	35

240	Analysis of the Inter-Submodule Active Power Disparity Limits of Modular Multilevel Converter-Based Battery Energy Storage Systems 2020 ,		2
239	Circulating Current Control for Modular Multilevel Converters With (N+1) Selective Harmonic Elimination PWM. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8712-8725	7.2	11
238	Deadbeat Predictive Current Control for Modular Multilevel Converters With Enhanced Steady-State Performance and Stability. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6878-6894	7.2	28
237	Condition Monitoring of DC-Link Capacitors Using Goertzel Algorithm for Failure Precursor Parameter and Temperature Estimation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6386-6396	7.2	26
236	Short Circuit Detection and Fault Current Limiting Method for IGBTs. <i>IEEE Transactions on Device and Materials Reliability</i> , 2020 , 20, 686-693	1.6	5
235	Reduced Battery Usage in a Hybrid Battery and Photovoltaic Stand-Alone DC Microgrid with Flexible Power Point Tracking 2020 ,		2
234	. <i>IEEE Access</i> , 2020 , 8, 223637-223651	3.5	7
233	DC-Link Voltage-Balancing Strategy Based on Optimal Switching Sequence Model Predictive Control for Single-Phase H-NPC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7410-7420	8.9	49
232	An Enhanced Static Compensator With DC-Link Voltage Shaping Method. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2488-2500	7.2	12
231	. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 160-170	4.3	9
230	Grid-Connected Photovoltaic Power Plant Without Phase Angle Synchronization Able to Address Fault-Ride-Through Capability. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3467-3476	5.6	6
229	Feedforward Modulation for the Neutral-Point-Clamped Converter With Confined Capacitor Voltage Ripples and Reduced Switching Power Losses. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4426-4438	7.2	6
228	A DC-Reactor-Based Solid-State Fault Current Limiter for HVdc Applications. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 720-728	4.3	47
227	Geometry optimization of thermoelectric modules: Simulation and experimental study. <i>Energy Conversion and Management</i> , 2019 , 195, 236-243	10.6	28
226	Circulating current control scheme of modular multilevel converters supplying passive networks under unbalanced load conditions. <i>Electric Power Systems Research</i> , 2019 , 171, 36-46	3.5	5
225	Low-Capacitance StatCom With Modular Inductive Filter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3192-3203	7.2	13
224	Study and Comparison of Discontinuous Modulation for Modular Multilevel Converters in Motor Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2376-2386	8.9	21
223	Alternate Arm Converters-Based HVDC Model Compatible With the CIGRE B4 DC Grid Test System. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 149-159	4.3	24

222	Maximum Power Point Controller for Large-Scale Photovoltaic Power Plants Using Central Inverters Under Partial Shading Conditions. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3098-3109	7.2	24
221	DC Marine Power System: Transient Behavior and Fault Management Aspects. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1911-1925	11.9	23
220	Operation and Control Methods of Modular Multilevel Converters in Unbalanced AC Grids: A Review. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1258-1271	5.6	54
219	Simplified Four-Level Inverter-Based Dynamic Voltage Restorer With Single DC Power Source. <i>IEEE Access</i> , 2019 , 7, 137461-137471	3.5	8
218	Capacitor Condition Monitoring Based on an Adaptive Observer of the Low-Frequency Capacitor Voltage Ripples for Modular Multilevel Converters 2019 ,		5
217	An Algorithm for Fast Flexible Power Point Tracking in Photovoltaic Power Plants 2019 ,		6
216	Load Adaptive Cascaded H-Bridge Low Capacitance StatCom with Modular Capacitors 2019 ,		2
215	A Comparative Study of Flexible Power Point Tracking Algorithms in Photovoltaic Systems 2019 ,		2
214	Passivity Control in Multilevel Cascaded H-Bridge Converters: A Variable Gain Approach 2019 ,		1
213	A Generalized Voltage Balancing Algorithm for Modular Multilevel Cascaded Converters 2019 ,		1
212	Control Scheme for LLC Resonant Converter with Improved Performance Under Light Loads and Wide Input-Output Voltage Variation 2019 ,		3
211	Balancing Average Capacitor Voltages in Neutral-Point-Clamped Converters Using Band-Limited Three-Level Modulation 2019 ,		1
210	Instantaneous Zero Sequence Voltage for Grid Energy Balancing Under Unbalanced Power Generation 2019 ,		2
209	Alternate Arm Converter Energy Balancing Under Parameter Variation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2996-3000	7.2	10
208	An Adaptive Control Scheme for Flexible Power Point Tracking in Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5451-5463	7.2	47
207	A Multi-Mode Flexible Power Point Tracking Algorithm for Photovoltaic Power Plants. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5038-5042	7.2	20
206	Online Estimation of Power Capacity With Noise Effect Attenuation for Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5724-5735	8.9	68
205	Modular Multilevel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2204-2206	8.9	2

204	Online condition monitoring of IGBT modules using current-change rate identification. <i>Microelectronics Reliability</i> , 2019 , 92, 55-62	1.2	5
203	A Universal Formulation for Multilevel Selective-Harmonic-Eliminated PWM With Half-Wave Symmetry. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 943-957	7.2	24
202	Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 272-291	7.6	57
201	Online junction temperature for off-the-shelf power converters 2018 ,		3
200	Impact of Circulating Current Control in Capacitor Voltage Ripples of Modular Multilevel Converters Under Grid Imbalances. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1257-1267	4.3	24
199	Flexible Control of Photovoltaic Grid-Connected Cascaded H-Bridge Converters During Unbalanced Voltage Sags. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6229-6238	8.9	51
198	Gradient-Based Energy Balancing and Current Control for Alternate Arm Converters. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1459-1468	4.3	19
197	A general algorithm for flexible active power control of photovoltaic systems 2018 ,		2
196	(2N+1) Selective Harmonic Elimination-PWM for Modular Multilevel Converters: A Generalized Formulation and A Circulating Current Control Method. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 802-818	7.2	38
195	Bifurcation Analysis of Parallel-Connected Voltage-Source Inverters With Constant Power Loads. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5482-5493	10.7	17
194	Modular Multilevel Converter DC Fault Protection. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 291-300	4.3	56
193	Interactions Between Indirect DC-Voltage Estimation and Circulating Current Controllers of MMC-Based HVDC Transmission Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 829-838	7	22
192	Reliability Worth Analysis of Distribution Systems Using Cascade Correlation Neural Networks. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 412-420	7	13
191	A General Constant Power Generation Algorithm for Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4088-4101	7.2	57
190	Review of FACTS technologies and applications for power quality in smart grids with renewable energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 502-514	16.2	125
189	Thermoelectric generation for waste heat recovery: Application of a system level design optimization approach via Taguchi method. <i>Energy Conversion and Management</i> , 2018 , 172, 507-516	10.6	29
188	Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 694-706	7.6	6
187	Energy Balancing of the Alternate Arm Converter Under Parameter Variations 2018 ,		1

186	Single-Carrier Phase-Disposition PWM Techniques for Multiple Interleaved Voltage-Source Converter Legs. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4466-4474	8.9	11
185	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1051-1061	8.9	42
184	Zero-Current Switching for the Alternate Arm Converter through On-Load Tap Changers 2018 ,		1
183	Design of 100 kVA SiC Power Converter for Aircraft Electric Starter Generator 2018 ,		2
182	Adaptive Filtering Scheme for a Low-Capacitance StatCom 2018 ,		7
181	Capacitor Voltage Shaper for Cascaded H-Bridge StatCom 2018 ,		2
180	Enhancing the Natural Voltage Balancing Capability of Neutral-Point-Clamped Converters under Carrier-Based Pulsewidth Modulation 2018 ,		2
179	Analysis of the Vienna Rectifier under Nonunity Power Factor Operation 2018 ,		3
178	Lifetime estimation of off-the-shelf aerospace power converters. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2018 , 33, 26-38	2.4	8
177	Switching Devices Comparison and RC Snubber for Ringing Suppression in one Single Leg T-type Converter 2018 ,		1
176	Estimation Methods and Sensor Reduction in Modular Multilevel Converters: A Review 2018 ,		8
175	Sequential Phase-Shifted Model Predictive Control for a Single-Phase Five-Level H-bridge Flying Capacitor Converter 2018 ,		4
174	Comparison of Current-Only Directional Protection in AC and DC Power Systems 2018 ,		4
173	Submodule Voltage Balancing and Loss Equalisation in Alternate Arm Converters Based on Virtual Voltages 2018 ,		6
172	Low-Capacitance StatCom with Thyristor Switched Filter Inductor 2018 ,		1
171	Online condition monitoring of IGBT modules using voltage change rate identification. <i>Microelectronics Reliability</i> , 2018 , 88-90, 486-492	1.2	9
170	Multilevel Converter-Based Photovoltaic Power Conversion 2018 , 369-411		
169	A dynamic thermal controller for power semiconductor devices 2018 ,		4

168	Active/reactive power control of photovoltaic grid-tied inverters with peak current limitation and zero active power oscillation during unbalanced voltage sags. <i>IET Power Electronics</i> , 2018 , 11, 1066-1073 ^{2.2}	33
167	Elimination of Low-Frequency Ripples and Regulation of Neutral-Point Voltage in Stacked Multicell Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 164-175	7.2 24
166	Reliable Modular Multilevel Converter Fault Detection With Redundant Voltage Sensor. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 39-51	7.2 66
165	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1744-1754	7.2 55
164	Comparison of bipolar sub-modules for the alternate arm converter. <i>Electric Power Systems Research</i> , 2017 , 146, 115-123	3.5 15
163	A 50-kW High-Frequency and High-Efficiency SiC Voltage Source Inverter for More Electric Aircraft. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9124-9134	8.9 66
162	Comprehensive review of gate-controlled series capacitor and applications in electrical systems. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1085-1093	2.5 9
161	Capacitor Voltages Measurement and Balancing in Flying Capacitor Multilevel Converters Utilizing a Single Voltage Sensor. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8115-8123	7.2 27
160	Passive Reactor Compensated Cascaded H-Bridge Multilevel LC-StatCom. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8338-8348	7.2 26
159	An isolated bipolar DC-DC converter for energy storage integration in marine vessels 2017 ,	4
158	Low-voltage ride-through capability of photovoltaic grid-connected neutral-point-clamped inverters with active/reactive power injection. <i>IET Renewable Power Generation</i> , 2017 , 11, 1182-1190	2.9 38
157	Investigation of MMC-HVDC operating region by circulating current control under grid imbalances. <i>Electric Power Systems Research</i> , 2017 , 152, 211-222	3.5 13
156	High-gain soft-switching interleaved switched-capacitor DCDC converter with phase-shedding technique. <i>IET Power Electronics</i> , 2017 , 10, 1013-1022	2.2 17
155	LC-StatCom with symmetrical I-V characteristic [Power loss analysis 2017 ,	9
154	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4878-4890	7.2 30
153	Reliability Optimization of Automated Distribution Networks With Probability Customer Interruption Cost Model in the Presence of DG Units. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 305-315	10.7 51
152	LC-StatCom with symmetrical I-V characteristic: Total Harmonic Distortion Study 2017 ,	10
151	Offset PWM in modular multilevel converters for capacitor voltage reduction under grid imbalances 2017 ,	1

150	Development of an alternate arm converter benchmark model for HVDC applications 2017 ,		3
149	Flexible prototype of modular multilevel converters for experimental verification of DC transmission and multiterminal systems 2017 ,		4
148	Limitations of overlap control for energy balancing of the alternate arm converter under imbalanced ac grid conditions 2017 ,		1
147	Comparison of IGBT junction temperature measurement and estimation methods-a review 2017 ,		18
146	Performance of series hybrid excitation synchronous machine in comparison with wound field synchronous machine 2017 ,		1
145	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2166-2174	10.7	10
144	. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 28-36	4.3	40
143	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 928-941	7.2	68
142	Circulating current control for modular multilevel converter based on selective harmonic elimination with ultra-low switching frequency 2016 ,		9
141	Low-frequency voltage ripples in the flying capacitors of the nested neutral-point-clamped converter 2016 ,		4
140	An Active Voltage-Balancing Method Based on Phase-Shifted PWM for Stacked Multicell Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1921-1930	7.2	30
139	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 177-187	7.2	27
138	Interleaved Operation of Three-Level Neutral Point Clamped Converter Legs and Reduction of Circulating Currents Under SHE-PWM. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3323-3332	8.9	18
137	On Improving Phase-Shifted PWM for Flying Capacitor Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5384-5388	7.2	32
136	Controllers for eliminating the ac components in the circulating current of modular multilevel converters. <i>IET Power Electronics</i> , 2016 , 9, 1-8	2.2	25
135	Resonant Versus Conventional Controllers in Grid-Connected Photovoltaic Power Plants Under Unbalanced Grid Voltages. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1124-1132	8.2	57
134	Control of Circulating Currents in Modular Multilevel Converters Through Redundant Voltage Levels. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7761-7769	7.2	42
133	A Hybrid Modular Multilevel Converter with Partial Embedded Energy Storage. <i>Energies</i> , 2016 , 9, 1012	3.1	9

132	A Review of Power Electronics for Grid Connection of Utility-Scale Battery Energy Storage Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1778-1790	8.2	155
131	Offset PWM in modular multilevel converters for stored arm energy reduction 2016 ,		7
130	Fractionally-rated DC-DC stages for use in multilevel cascaded converter utility-scale battery energy storage systems 2016 ,		3
129	Capacitance minimization in modular multilevel converters: Using model predictive control to inject optimal circulating currents and zero-sequence voltage 2016 ,		7
128	Study on the unbalanced current injection capability of grid-connected photovoltaic neutral-point-clamped inverter 2016 ,		2
127	Comparison of bipolar sub-modules for the alternate arm converter 2016 ,		4
126	Asymmetric overlap and hysteresis current control of zero-current switched alternate arm converter 2016 ,		4
125	An algorithm for reduction of extracted power from photovoltaic strings in grid-tied photovoltaic power plants during voltage sags 2016 ,		8
124	Submodule power losses balancing algorithms for the modular multilevel converter 2016 ,		8
123	Low-voltage ride-through capability of cascaded H-bridge multilevel converters for large-scale photovoltaic power plants 2016 ,		3
122	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7533-7541	8.9	86
121	Control strategies for combining local energy storage with wells turbine oscillating water column devices. <i>Renewable Energy</i> , 2015 , 83, 1097-1109	8.1	21
120	Individual Phase Current Control With the Capability to Avoid Overvoltage in Grid-Connected Photovoltaic Power Plants Under Unbalanced Voltage Sags. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5346-5351	7.2	22
119	Single-Carrier Phase-Disposition PWM Implementation for Multilevel Flying Capacitor Converters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5376-5380	7.2	31
118	On Reducing Power Losses in Stack Multicell Converters with Optimal Voltage Balancing Method. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4682-4695	7.2	11
117	Defining the exact number of sub-module transitions in fundamental frequency modulated modular multilevel converters 2015 ,		2
116	Reducing circulating currents in interleaved converter legs under selective harmonic elimination pulse-width modulation 2015 ,		2
115	Comparison and evaluation of sub-module configurations in modular multilevel converters 2015 ,		27

114	. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4714-4725	7.2	66
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