Patrick Wheeler

List of Publications by Year in Descending Order

381 papers	7,926 citations	48 h-index	76 g-index
463 ext. papers	10,667 ext. citations	5.3 avg, IF	6.62 L-index

#	Paper	IF	Citations
381	FEA based Transformer Loss Analysis for Dual Active Bridge DC-DC Converter using Triple Phase Shift Modulation. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	
380	Cyber-attacks in modular multilevel converters. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	1
379	A Voltage Spike Suppression Strategy Based on De-Re-Coupling Idea for the Three-Phase High Frequency Isolated Matrix-Type Inverter. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	0
378	The More-Electric Aircraft and Beyond. *Proceedings of the IEEE*, **2022**, 1-15	14.3	2
377	Research on the Voltage Spike Suppression Strategy for Three-Phase High Frequency Link Matrix-Type Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	0
376	Implementation of exact linearization technique for modeling and control of DC/DC converters in rural PV microgrid application.. *IEEE Access*, **2022**, 1-1	3.5	0
375	Control-Based Two-Layer Protection for Short-Circuit Fault at an LVDC Feeder Branch. *Energies*, **2022**, 15, 4054	3.1	
374	Active Rectifier Control for Selective Fuse Tripping in a DC Microgrid **2021**,		1
373	An Advanced Modulation Technique Featuring Neutral Point Voltage Ripple Suppression of Three-Level Converters in High-Speed Drives. *IEEE Access*, **2021**, 9, 144805-144819	3.5	
372	Finite Control Set Model Predictive Control for Dual Active Bridge converter. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2
371	DC Current Control for a Single-Stage Current Source Inverter in Motor Drive Application. *IEEE Transactions on Power Electronics*, **2021**, 36, 3367-3376	7.2	11
370	Impedance-based Stability Analysis of Permanent Magnet Synchronous Generator for the More Electric Aircraft **2021**,		3
369	Comparative Study of Classical and MPC Control for Single-Phase MMC Based on V-HIL Simulations. *Energies*, **2021**, 14, 3230	3.1	2
368	A Novel Predictive Control Method with Optimal Switching Sequence and Filter Resonance Suppression for Two-Stage Matrix Converter. *Energies*, **2021**, 14, 3652	3.1	1
367	Model-Based Predictive Rotor Current Control Strategy for Indirect Power Control of a DFIM Driven by an Indirect Matrix Converter. *IEEE Transactions on Energy Conversion*, **2021**, 36, 1510-1516	5.4	1
366	. *Proceedings of the IEEE*, **2021**, 109, 1115-1127	14.3	13
365	Enhanced Performance of Dual Inverter With a Floating Capacitor for Motor Drive Applications. *IEEE Transactions on Power Electronics*, **2021**, 36, 6903-6916	7.2	7

364	Integrated Motor Drive: Mass and Volume Optimization of the Motor with an Integrated Filter Inductor. *Energies*, **2021**, 14, 4564	3.1	2
363	Advanced Control Methods for Power Converters in DG Systems and Microgrids. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5847-5862	8.9	23
362	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5638-5649	8.9	6
361	A Reduced Single-Phase Switched-Diode Cascaded Multilevel Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 3556-3569	5.6	14
360	Optimal Filter Design for Power Converters Regulated by FCS-MPC in the MEA. *IEEE Transactions on Power Electronics*, **2021**, 36, 3258-3268	7.2	3
359	Overmodulation Methods for Modulated Model Predictive Control and Space Vector Modulation. *IEEE Transactions on Power Electronics*, **2021**, 36, 4549-4559	7.2	15
358	Experimental Validation of a Quasi-Z-Source Modular Multilevel Converter With DC-Fault Blocking Capability. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 1951-1965	5.6	2
357	Active Modulation Strategy for Capacitor Voltage Balancing of Three-Level Neutral-Point-Clamped Converters in High-Speed Drives. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	8
356	Stability Improvement of Onboard HVDC Grid and Engine Using an Advanced Power Generation Center for the More-Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	2
355	A Family of High Step□Up DC□DC Converters With Nc Step-Up Cells and M□Source Clamped Circuits. *IEEE Access*, **2021**, 9, 65947-65966	3.5	3
354	An Enhanced-Boost Coupled-Inductor Impedance Network Inverter without Limitation of Inductor Parameters. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
353	Model Predictive Control With Triple Phase Shift Modulation for a Dual Active Bridge DC-DC Converter. *IEEE Access*, **2021**, 9, 98603-98614	3.5	4
352	Modeling and Experimental Evaluation of Z-Source Modular Multilevel Converter Using Reduced Inserted Cells Technique. *IEEE Access*, **2021**, 1-1	3.5	
351	Failure Modes and Reliability Oriented System Design for Aerospace Power Electronic Converters. *IEEE Open Journal of the Industrial Electronics Society*, **2021**, 2, 53-64	3.6	9
350	Modeling and Stability Enhancement of a Permanent Magnet Synchronous Generator Based DC System for More Electric Aircraft. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	8
349	An Overmodulation Algorithm With Neutral-Point Voltage Balancing for Three-Level Converters in High-Speed Aerospace Drives. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	6
348	Technical Review of Dual Inverter Topologies for More Electric Aircraft Applications. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	8
347	Femtocore: An Application Specific Processor for Vertically Integrated High Performance Real-Time Controls. *IEEE Open Journal of the Industrial Electronics Society*, **2021**, 1-1	3.6	0

346	A Switched-DC Source Sub-Module Multilevel Inverter Topology for Renewable Energy Source Applications. *IEEE Access*, **2021**, 1-1	3.5	6
345	A Novel Open-circuit Fault Detection and Location for Open-end Winding PMSM Based on Differential-mode Components. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
344	Three-Level Indirect Matrix Converter with Neutral-Point Potential Balance Scheme for Adjustable Speed Drives. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	0
343	Improved Active Damping Stabilization of DAB Converter Interfaced Aircraft DC Microgrids Using Neural Network-Based Model Predictive Control. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	0
342	Predictive Control with Current-Based Maximum Power Point-Tracking for On-Grid Photovoltaic Applications. *Sustainability*, **2021**, 13, 3037	3.6	1
341	Current Control of LCL-Type Shunt APFs: Damping Characteristics, Stability Analysis, and Robust Design Against Grid Impedance Variation. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5026-5042	5.6	4
340	An enhanced feedforward flux weakening control for high-speed permanent magnet machine drive applications. *IET Power Electronics*, **2021**, 14, 2179-2193	2.2	1
339	Neural Network aided PMSM multi-objective design and optimization for more-electric aircraft applications. *Chinese Journal of Aeronautics*, **2021**,	3.7	2
338	System-Level Reliability Assessment of Short Duty Electric Drives for Aerospace. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1888-1900	7.6	3
337	Evaluation of Input-Shaping Control Robustness for the Reduction of Torsional Vibrations. *IEEE Transactions on Industry Applications*, **2021**, 57, 5028-5038	4.3	
336	An Enhanced Virtual Space Vector Modulation Scheme of Three-Level NPC Converters for More-Electric-Aircraft Applications. *IEEE Transactions on Industry Applications*, **2021**, 57, 5239-5251	4.3	10
335	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2952-2964	7.6	10
334	A Cascade PI-SMC Method for Matrix Converter-Fed BDFIM Drives. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2541-2550	7.6	3
333	A Scalable System Architecture for High-Performance Fault Tolerant Machine Drives. *IEEE Open Journal of the Industrial Electronics Society*, **2021**, 2, 428-440	3.6	0
332	Open Phase Fault Tolerant Control of Multi Three Phase Machines. *IEEE Open Journal of Power Electronics*, **2021**, 1-1	2.5	3
331	Development of High-Current Solid-State Power Controllers for Aircraft High-Voltage DC Network Applications. *IEEE Access*, **2021**, 9, 105048-105059	3.5	3
330	Reduction of Torsional Vibrations Excited by Electromechanical Interactions in More Electric Systems. *IEEE Access*, **2021**, 9, 95036-95045	3.5	
329	A Review of Control Techniques in Photovoltaic Systems. *Sustainability*, **2020**, 12, 10598	3.6	5

328	Reliability-Oriented Design of Electrical Machines: The Design Process for MachinesR Insulation Systems MUST Evolve. *IEEE Industrial Electronics Magazine*, **2020**, 14, 20-28	6.2	18
327	High-Speed Electric Drives: A Step Towards System Design. *IEEE Open Journal of the Industrial Electronics Society*, **2020**, 1, 10-21	3.6	8
326	Improved Predictive Control in Multi-Modular Matrix Converter for Six-Phase Generation Systems. *Energies*, **2020**, 13, 2660	3.1	6
325	Stable and Robust Design of Active Disturbance-Rejection Current Controller for Permanent Magnet Machines in Transportation Systems. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1421-1433	7.6	9
324	A Cascade PI-SMC Method for Brushless Doubly-Fed Induction Machine with Matrix Converter **2020** ,		2
323	. *IEEE Transactions on Industry Applications*, **2020**, 56, 3006-3019	4.3	11
322	Predictive Control Based DC Microgrid Stabilization With the Dual Active Bridge Converter. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 8944-8956	8.9	25
321	A Generalized Input Impedance Model of Multiple Active Bridge Converter. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1695-1706	7.6	5
320	. *IEEE Transactions on Power Electronics*, **2020**, 35, 5267-5278	7.2	23
319	Application of Analytic Signal and Smooth Interpolation in Pulsewidth Modulation for Conventional Matrix Converters. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 10011-10023	8.9	10
318	Moving Discretized Control Set Model-Predictive Control for Dual-Active Bridge With the Triple-Phase Shift. *IEEE Transactions on Power Electronics*, **2020**, 35, 8624-8637	7.2	13
317	The Analysis Performance of a Grid-Connected 8.2 kWp Photovoltaic System in the Patagonia Region. *Sustainability*, **2020**, 12, 9227	3.6	4
316	An Improved Coupled-Inductor Impedance Source Network With More Freedom in Winding Match. *IEEE Access*, **2020**, 8, 141472-141480	3.5	1
315	Evolutionary Multiobjective Optimization of a System-Level Motor Drive Design. *IEEE Transactions on Industry Applications*, **2020**, 56, 6904-6913	4.3	2
314	An Overview of Applications of the Modular Multilevel Matrix Converter. *Energies*, **2020**, 13, 5546	3.1	6
313	Indirect Matrix Converter-Based Grid-Tied Photovoltaics System for Smart Grids. *Energies*, **2020**, 13, 5405	3.1	1
312	. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1434-1447	7.6	6
311	A Low-Complexity Optimal Switching Time-Modulated Model-Predictive Control for PMSM With Three-Level NPC Converter. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1188-1198	7.6	24

310	An Overview of Modelling Techniques and Control Strategies for Modular Multilevel Matrix Converters. *Energies*, **2020**, 13, 4678	3.1	6
309	. *IEEE Transactions on Industrial Electronics*, **2020**, 1-1	8.9	4
308	Control Techniques for a Single-Phase Matrix Converter. *Energies*, **2020**, 13, 6337	3.1	1
307	High Step-Up Y-Source Coupled-Inductor Impedance Network Boost DC–DC Converters With Common Ground and Continuous Input Current. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3174-3183	5.6	10
306	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2618-2629	8.9	35
305	Model Predictive Control for Dual-Active-Bridge Converters Supplying Pulsed Power Loads in Naval DC Micro-Grids. *IEEE Transactions on Power Electronics*, **2020**, 35, 1957-1966	7.2	39
304	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 1844-1854	8.9	7
303	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 5197-5203	8.9	32
302	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 4315-4325	8.9	8
301	A Unidirectional Insulated AC–DC Converter Based on the Hexverter and Multipulse-Rectifier. *IEEE Transactions on Power Electronics*, **2020**, 35, 2363-2371	7.2	3
300	Steady-State Error Suppression and Simplified Implementation of Direct Source Current Control for Matrix Converter With Model Predictive Control. *IEEE Transactions on Power Electronics*, **2020**, 35, 3183-3194	7.2	11
299	An Improved Three-Phase Buck Rectifier Topology With Reduced Voltage Stress on Transistors. *IEEE Transactions on Power Electronics*, **2020**, 35, 2458-2466	7.2	9
298	Challenges of the Optimization of a High-Speed Induction Machine for Naval Applications. *Energies*, **2019**, 12, 2431	3.1	7
297	Energy Storage Sizing Strategy for Grid-Tied PV Plants under Power Clipping Limitations. *Energies*, **2019**, 12, 1812	3.1	14
296	A Three-Phase Modular Isolated Matrix Converter. *IEEE Transactions on Power Electronics*, **2019**, 34, 11760-11773	7.2	13
295	. *IEEE Transactions on Industry Applications*, **2019**, 55, 3544-3554	4.3	32
294	Two methods for controlling three-time fundamental frequency neutral-point voltage oscillation in a hybrid VIENNA rectifier. *IET Power Electronics*, **2019**, 12, 932-943	2.2	3
293	A Leakage-Inductance-Tolerant Commutation Strategy for Isolated AC/AC Converters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 467-479	5.6	8

292	Current-Fed Multipulse Rectifier Approach for Unidirectional HVDC and MVDC Applications. *IEEE Transactions on Power Electronics*, **2019**, 34, 3081-3090	7.2	5
291	A Modified Neutral Point Balancing Space Vector Modulation for Three-Level Neutral Point Clamped Converters in High-Speed Drives. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 910-921	8.9	35
290	Voltage Utilization Enhancement of Dual Inverters by Model Predictive Control for Motor Drive Applications **2019**,		4
289	Analytical modelling and power density optimisation of a single phase dual active bridge for aircraft application. *Journal of Engineering*, **2019**, 2019, 3671-3676	0.7	9
288	Single-stage impedance source inverters with quasi-DC□DC output cell for working in dual inductor current modes. *IET Power Electronics*, **2019**, 12, 1585-1592	2.2	
287	Vector control strategies to enable equal frequency operation of the modular multilevel matrix converter. *Journal of Engineering*, **2019**, 2019, 4214-4219	0.7	5
286	Experimental evaluation of predictive voltage control for a four-leg two-stage matrix converter. *IET Power Electronics*, **2019**, 12, 3077-3084	2.2	1
285	Impedance-based Sensitivity Analysis of Dual Active Bridge DC-DC Converter **2019**,		3
284	An Active Modulation Scheme for Avoiding Overcharging in the Dual Converter with Isolated Asymmetric Supplies **2019**,		2
283	An Enhanced Unified Space Vector Modulation Technique for Dual Converters with Isolated Voltage Supplies **2019**,		2
282	Modelling of reduced electromechanical interaction system for aircraft applications. *IET Electric Power Applications*, **2019**, 13, 1061-1070	1.8	3
281	Evaluation of strand-to-strand capacitance and dissipation factor in thermally aged enamelled coils for low-voltage electrical machines. *IET Science, Measurement and Technology*, **2019**, 13, 1170-1177	1.5	10
280	Flux control modulation for the dual active bridge DC/DC converter. *Journal of Engineering*, **2019**, 2019, 4353-4358	0.7	2
279	Fast and Accurate Multi-Physics Model for Optimization-based Design of VSBBC **2019**,		1
278	Wind Energy Development and Technology in the World: A Brief Overview **2019**,		2
277	Modulated Model Predictive Current Control for PMSM Operating With Three-level NPC Inverter **2019**,		3
276	Cost function-based modulation scheme of model predictive control for VIENNA rectifier. *IET Power Electronics*, **2019**, 12, 3646-3655	2.2	5
275	A Power Generation Center with Back-to-back Converter Considering Post-fault Operation for MEA Application **2019**,		2

274	Transfer Function Based Input Impedance Determination of Triple Active Bridge Converter **2019**,		1
273	Review, Challenges, and Future Developments of Electric Taxiing Systems. *IEEE Transactions on Transportation Electrification*, **2019**, 5, 1441-1457	7.6	33
272	Comparative Evaluation of High Power Solid State Power Controller (SSPC) With and Without Auxiliary Over-current Bypass Circuit **2019**,		3
271	The Rebirth of the Current Source Inverter: Advantages for Aerospace Motor Design. *IEEE Industrial Electronics Magazine*, **2019**, 13, 65-76	6.2	28
270	Review of model predictive control strategies for matrix converters. *IET Power Electronics*, **2019**, 12, 3021-3032	2.2	16
269	Geometrical visualisation of indirect space vector modulation for matrix converters operating with abnormal supplies. *IET Power Electronics*, **2019**, 12, 4023-4033	2.2	1
268	Evaluation of Posicast Compensator Robustness for the Reduction of Torsional Vibrations **2019**,		1
267	System-Level Motor Drive Modelling for Optimization-based Designs **2019**,		3
266	A Novel Virtual Space Vector Modulation Scheme for Three-Level NPC Power Converter with Neutral-Point Voltage Balancing and Common-Mode Voltage Reduction for Electric Starter/Generator System in More-Electric-Aircraft **2019**,		6
265	Fast and Accurate Model for Optimization-based Design of Fractional-Slot Surface PM Machines **2019**,		3
264	High step-up cascaded DC–DC converter integrating coupled inductor and passive snubber. *IET Power Electronics*, **2019**, 12, 2414-2423	2.2	11
263	Trade-off Study of a High Power Density Starter-Generator for Turboprop Aircraft System **2019**,		1
262	Phase-Shift Modulation for a Current-Fed Isolated DC–DC Converter in More Electric Aircrafts. *IEEE Transactions on Power Electronics*, **2019**, 34, 8528-8543	7.2	17
261	Artificial Intelligence Aided Automated Design for Reliability of Power Electronic Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 7161-7171	7.2	58
260	Fixed switching frequency predictive control of an asymmetric source dual inverter system with a floating bridge for multilevel operation. *IET Power Electronics*, **2019**, 12, 450-457	2.2	8
259	An Active Modulation Scheme to Boost Voltage Utilization of the Dual Converter With a Floating Bridge. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5623-5633	8.9	32
258	On-Board Microgrids for the More Electric Aircraft—Technology Review. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5588-5599	8.9	91
257	Analysis and Modeling of SiC JFET Bi-Directional Switches Parasitic Oscillation. *IEEE Transactions on Power Electronics*, **2019**, 34, 8613-8625	7.2	6

256	Vector Control of a Modular Multilevel Matrix Converter Operating Over the Full Output-Frequency Range. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5102-5114	8.9	16
255	Advanced Modulations for a Current-Fed Isolated DC–DC Converter With Wide-Voltage-Operating Ranges. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 2540-2552	5.6	7
254	An Optimal Full Frequency Control Strategy for the Modular Multilevel Matrix Converter Based on Predictive Control. *IEEE Transactions on Power Electronics*, **2018**, 33, 6608-6621	7.2	30
253	. *IEEE Transactions on Power Electronics*, **2018**, 33, 5641-5659	7.2	26
252	Generic functional modelling of multi-pulse auto-transformer rectifier units for more-electric aircraft applications. *Chinese Journal of Aeronautics*, **2018**, 31, 883-891	3.7	8
251	A Branch Current Reallocation Based Energy Balancing Strategy for the Modular Multilevel Matrix Converter Operating Around Equal Frequency. *IEEE Transactions on Power Electronics*, **2018**, 33, 1105-1117	7.2	36
250	. *IEEE Transactions on Power Electronics*, **2018**, 33, 3567-3574	7.2	10
249	A Finite Control Set Model Predictive Control Method for Matrix Converter With Zero Common-Mode Voltage. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 327-338	5.6	42
248	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 4483-4491	8.9	12
247	A Family of Improved Magnetically Coupled Impedance Network Boost DC–DC Converters. *IEEE Transactions on Power Electronics*, **2018**, 33, 3697-3702	7.2	23
246	Voltage-Double Magnetically Coupled Impedance Source Networks. *IEEE Transactions on Power Electronics*, **2018**, 33, 5983-5994	7.2	14
245	Development of Aircraft Electric Starter–Generator System Based on Active Rectification Technology. *IEEE Transactions on Transportation Electrification*, **2018**, 4, 985-996	7.6	43
244	Neural Network Based Maximum Power Point Tracking Control with Quadratic Boost Converter for PMSG–Wind Energy Conversion System. *Electronics (Switzerland)*, **2018**, 7, 20	2.6	20
243	Matrix Converter Open-Circuit Fault Behavior Analysis and Diagnosis With a Model Predictive Control Strategy. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 1831-1839	5.6	7
242	A Modulated Model Predictive Control Scheme for the Brushless Doubly Fed Induction Machine. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 1681-1691	5.6	14
241	Performance Analysis of H_{2} Optimally Controlled Three-Phase Grids **2018**,		3
240	An Enhanced Power Generation Centre for More Electric Aircraft Applications **2018**,		6
239	Thermal Analysis of High Power High Voltage DC Solid State Power Controller (SSPC) for Next Generation Civil Tilt Rotor-craft **2018**,		4

238	Optimized control design for power converters in power electronics embedded networks integrating grid model identification **2018**,		1
237	Common Mode Voltage Elimination in Industrial AC-AC Converters Based on Model Predictive Control **2018**,		2
236	Predictive Control Strategies Operating at Fixed Switching Frequency for Input Filter Resonance Mitigation in an Indirect Matrix Converter. *IEEE Latin America Transactions*, **2018**, 16, 2370-2376	0.7	2
235	Transient Stability Analysis of DC Solid State Power Controller (SSPC) for More Electric Aircraft **2018**,		3
234	An Improved Multistage Switched Inductor Boost Converter (Improved M-SIBC) for Renewable Energy Applications: A key to Enhance Conversion Ratio **2018**,		8
233	Model Predictive Control for Isolated DC/DC Power Converters with Transformer Peak Current Shaving **2018**,		5
232	Bidirectional partial power converter interface for energy storage systems to provide peak shaving in grid-tied PV plants **2018**,		6
231	Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *IEEE Transactions on Transportation Electrification*, **2018**, 4, 646-659	7.6	205
230	Control of modular multilevel cascade converters for offshore wind energy generation and transmission **2018**,		6
229	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2395-2415	7.2	96
228	Control of a Direct Matrix Converter With Modulated Model-Predictive Control. *IEEE Transactions on Industry Applications*, **2017**, 53, 2342-2349	4.3	45
227	. *IEEE Transactions on Industry Applications*, **2017**, 53, 4603-4612	4.3	16
226	Modulated Predictive Control for Indirect Matrix Converter. *IEEE Transactions on Industry Applications*, **2017**, 53, 4644-4654	4.3	33
225	Coupled-Inductor L-Source Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 5, 1298-1310	5.6	15
224	. *IEEE Transactions on Industry Applications*, **2017**, 53, 1106-1115	4.3	26
223	High-Voltage DC-DC Converter Topology for PV Energy Utilization Investigation and Implementation. *Electric Power Components and Systems*, **2017**, 45, 221-232	1	19
222	Parameters mismatch analysis for the Active-Bridge-Active-Clamp (ABAC) converter **2017**,		4
221	Advanced modulation for the Active-Bridge-Active-Clamp (ABAC) converter **2017**,		7

220	Control of Wind Energy Conversion Systems Based on the Modular Multilevel Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8799-8810	8.9	56
219	Quasi Z-source NPC inverter for PV application **2017**,		3
218	Ultracapacitor storage enabled global MPPT for photovoltaic central inverters **2017**,		3
217	Integrated motor drive design for weight optimization **2017**,		2
216	Novel high step-up dual switches converter with reduced power device voltage stress for distributed generation system. *IET Power Electronics*, **2017**, 10, 1800-1809	2.2	6
215	Transistor Clamped Five-Level Inverter using Non-Inverting Double Reference Single Carrier PWM Technique for photovoltaic applications **2017**,		7
214	Thermal Design of Linear Induction and Synchronous Motors for Electromagnetic Launch of Civil Aircraft. *IEEE Transactions on Plasma Science*, **2017**, 45, 1146-1153	1.3	7
213	Preselection algorithm based on predictive control for direct matrix converter. *IET Electric Power Applications*, **2017**, 11, 768-775	1.8	17
212	Design recommendations for energy systems: A UK energy community study **2017**,		1
211	Geometry optimization and characterization of three-phase medium frequency transformer for 10kVA Isolated DC-DC converter **2017**,		1
210	Design optimization of integrated rotational inductor for high-speed AC drive applications **2017**,		2
209	A modulated model predictive control scheme for the brushless doubly-fed induction machine **2017**,		4
208	**2017**,		8
207	An effective hybrid space vector PWM technique to improved inverter performance **2017**,		5
206	Design considerations for a high-power dual active bridge DC-DC converter with galvanically isolated transformer **2017**,		3
205	Modulated model predictive current control of an indirect matrix converter with active damping **2017**,		3
204	Matrix converter open circuit fault diagnosis with asymmetric one zero SVM **2017**,		1
203	Semiconductor Devices in Solid-State/Hybrid Circuit Breakers: Current Status and Future Trends. *Energies*, **2017**, 10, 495	3.1	17

202	A Single-Phase Bidirectional AC/DC Converter for V2G Applications. *Energies*, **2017**, 10, 881	3.1	5
201	Control Design and Voltage Stability Analysis of a Droop-Controlled Electrical Power System for More Electric Aircraft. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9271-9281	8.9	80
200	A Comprehensive Analysis and Hardware Implementation of Control Strategies for High Output Voltage DC-DC Boost Power Converter. *International Journal of Computational Intelligence Systems*, **2017**, 10, 140	3.4	18
199	Speed sensorless vector control of parallel-connected three-phase two-motor single-inverter drive system. *Facets*, **2017**, 1, 1-16	2.3	1
198	Analysis and implementation of power management and control strategy for six-phase multilevel ac drive system in fault condition **2016**, 19, 31-39		7
197	Superconducting Electromagnetic Launch System for Civil Aircraft. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-11	1.8	7
196	A survey on configurations of current-limiting circuit breakers (CL-CB) **2016**,		2
195	Silicon carbide MOSFETs in more electric aircraft power converters: The performance and reliability benefits over silicon IGBTs for a specified flight mission profile **2016**,		5
194	Novel current-limiting strategy for solid-state circuit breakers (SSCB) without additional impedance **2016**,		1
193	Optimized carrier based multilevel generated modified dual three-phase open-winding inverter for medium power application **2016**,		3
192	The application of the modular multilevel matrix converter in high-power wind turbines **2016**,		3
191	A high-power DC-DC converter based dual active bridge for MVDC grids on offshore wind farms **2016**,		8
190	A Family of DCDC Converters Deduced From Impedance Source DCDC Converters for High Step-Up Conversion. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6856-6866	8.9	29
189	. *IEEE Transactions on Industry Applications*, **2016**, 52, 4135-4145	4.3	31
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