Patrick Wheeler

List of Publications by Citations

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	. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 58-70	8.9	352
380	Review of Three-Phase PWM AC□AC Converter Topologies. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 4988-5006	8.9	304
379	Comparative Evaluation of Three-Phase AC□AC Matrix Converter and Voltage DC-Link Back-to-Back Converter Systems. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 4487-4510	8.9	231
378	Fault Detection for Modular Multilevel Converters Based on Sliding Mode Observer. *IEEE Transactions on Power Electronics*, **2013**, 28, 4867-4872	7.2	216
377	Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *IEEE Transactions on Transportation Electrification*, **2018**, 4, 646-659	7.6	205
376	The More Electric Aircraft: Technology and challenges.. *IEEE Electrification Magazine*, **2014**, 2, 6-12	2.6	197
375	Predictive Torque Control of an Induction Machine Fed by a Matrix Converter With Reactive Input Power Control. *IEEE Transactions on Power Electronics*, **2010**, 25, 1426-1438	7.2	157
374	Predictive Current Control of an Induction Machine Fed by a Matrix Converter With Reactive Power Control. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 4362-4371	8.9	141
373	Space-Vector Modulated Multilevel Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 3385-3394	8.9	128
372	Selective Harmonic Mitigation Technique for Cascaded H-Bridge Converters With Nonequal DC Link Voltages. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1963-1971	8.9	122
371	Control and Implementation of a Matrix-Converter-Based AC Ground Power-Supply Unit for Aircraft Servicing. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 2076-2084	8.9	117
370	A Thermal Improvement Technique for the Phase Windings of Electrical Machines. *IEEE Transactions on Industry Applications*, **2012**, 48, 79-87	4.3	106
369	. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 578-588	8.9	101
368	Feed-Forward Space Vector Modulation for Single-Phase Multilevel Cascaded Converters With Any DC Voltage Ratio. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 315-325	8.9	101
367	. *IEEE Transactions on Power Electronics*, **2017**, 32, 2395-2415	7.2	96
366	A Hybrid Modular Multilevel Voltage Source Converter for HVDC Power Transmission. *IEEE Transactions on Industry Applications*, **2013**, 49, 1577-1588	4.3	95
365	. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 163-172	8.9	95

364	A Complete Harmonic Elimination Approach to DC Link Voltage Balancing for a Cascaded Multilevel Rectifier. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 2946-2953	8.9	93
363	On-Board Microgrids for the More Electric Aircraft Technology Review. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5588-5599	8.9	91
362	Experimental and Analytical Performance Evaluation of SiC Power Devices in the Matrix Converter. *IEEE Transactions on Power Electronics*, **2014**, 29, 2584-2596	7.2	90
361	Speed Finite Control Set Model Predictive Control of a PMSM Fed by Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 6786-6796	8.9	90
360	. *IEEE Transactions on Power Electronics*, **2011**, 26, 2794-2803	7.2	90
359	Control of the Reactive Power Supplied by a WECS Based on an Induction Generator Fed by a Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 429-438	8.9	89
358	Stability Analysis of a Wind Energy Conversion System Based on a Doubly Fed Induction Generator Fed by a Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4194-4206	8.9	86
357	Large-Signal Model for the Stability Analysis of Matrix Converters. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 939-950	8.9	81
356	Control System for Unbalanced Operation of Stand-Alone Doubly Fed Induction Generators. *IEEE Transactions on Energy Conversion*, **2007**, 22, 544-545	5.4	81
355	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
354	Control Design of a Three-Phase Matrix-Converter-Based AC AC Mobile Utility Power Supply. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 209-217	8.9	74
353	Control of a Doubly Fed Induction Generator via an Indirect Matrix Converter With Changing DC Voltage. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 4664-4674	8.9	71
352	Space-Vector-Modulated Three-Level Inverters With a Single Z-Source Network. *IEEE Transactions on Power Electronics*, **2013**, 28, 2806-2815	7.2	68
351	An Improved Voltage Compensation Approach in a Droop-Controlled DC Power System for the More Electric Aircraft. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	64
350	Open-Circuit Fault Detection and Diagnosis in Matrix Converters. *IEEE Transactions on Power Electronics*, **2015**, 30, 2840-2847	7.2	63
349	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 101-109	8.9	62
348	Fault-Tolerant Matrix Converter Motor Drives With Fault Detection of Open Switch Faults. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 257-268	8.9	61
347	A Topology for Multiple Generation System With Doubly Fed Induction Machines and Indirect Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4181-4193	8.9	60

346	Artificial Intelligence Aided Automated Design for Reliability of Power Electronic Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 7161-7171	7.2	58
345	Technology for the more and all electric aircraft of the future **2016**,		57
344	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
343	Implementation of a Hybrid AC–AC Direct Power Converter With Unity Voltage Transfer. *IEEE Transactions on Power Electronics*, **2008**, 23, 1918-1926	7.2	55
342	Control of a Matrix Converter With Imposed Sinusoidal Source Currents. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 1939-1949	8.9	52
341	Control strategy for a Doubly-Fed Induction Generator feeding an unbalanced grid or stand-alone load. *Electric Power Systems Research*, **2009**, 79, 355-364	3.5	52
340	A Multilevel Converter With a Floating Bridge for Open-End Winding Motor Drive Applications. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5366-5375	8.9	52
339	Multiobjective Modulated Model Predictive Control for a Multilevel Solid-State Transformer. *IEEE Transactions on Industry Applications*, **2015**, 51, 4051-4060	4.3	50
338	Elimination of Waveform Distortions in Matrix Converters Using a New Dual Compensation Method. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 2079-2087	8.9	50
337	An overview of the more electrical aircraft. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2013**, 227, 578-585	0.9	49
336	Active DC Voltage Balancing PWM Technique for High-Power Cascaded Multilevel Converters. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 6157-6167	8.9	48
335	. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 2811-2823	8.9	48
334	. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 1282-1293	8.9	48
333	The Application of Resonant Controllers to Four-Leg Matrix Converters Feeding Unbalanced or Nonlinear Loads. *IEEE Transactions on Power Electronics*, **2012**, 27, 1120-1129	7.2	46
332	Control of a Direct Matrix Converter With Modulated Model-Predictive Control. *IEEE Transactions on Industry Applications*, **2017**, 53, 2342-2349	4.3	45
331	Development of Aircraft Electric Starter–Generator System Based on Active Rectification Technology. *IEEE Transactions on Transportation Electrification*, **2018**, 4, 985-996	7.6	43
330	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
329	Harmonic Loss Due to Operation of Induction Machines From Matrix Converters. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 809-816	8.9	39

328	. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5558-5568	8.9	39
327	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
326	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
325	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
324	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2618-2629	8.9	35
323	Capacitor Clamped Multilevel Matrix Converter Space Vector Modulation. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 105-115	8.9	34
322	Modulated Predictive Control for Indirect Matrix Converter. *IEEE Transactions on Industry Applications*, **2017**, 53, 4644-4654	4.3	33
321	A Four-Leg Matrix Converter Ground Power Unit With Repetitive Voltage Control. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 2032-2040	8.9	33
320	Analytical and Experimental Evaluation of a WECS Based on a Cage Induction Generator Fed by a Matrix Converter. *IEEE Transactions on Energy Conversion*, **2011**, 26, 204-215	5.4	33
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317	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
316	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 5197-5203	8.9	32
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313	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
312	Experimental Comparison of a Direct Matrix Converter Using Si IGBT and SiC MOSFETs. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2015**, 3, 542-554	5.6	28
311	A simple MPPT algorithm for novel PV power generation system by high output voltage DC-DC boost converter **2015**,		28

310	Design of a High-Force-Density Tubular Motor. *IEEE Transactions on Industry Applications*, **2014**, 50, 2523-2532	4.3	28
309	The Rebirth of the Current Source Inverter: Advantages for Aerospace Motor Design. *IEEE Industrial Electronics Magazine*, **2019**, 13, 65-76	6.2	28
308	Resonant control system for low-voltage ride-through in wind energy conversion systems. *IET Power Electronics*, **2016**, 9, 1297-1305	2.2	27
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306	. *IEEE Transactions on Industry Applications*, **2017**, 53, 1106-1115	4.3	26
305	. *IEEE Transactions on Power Electronics*, **2018**, 33, 5641-5659	7.2	26
304	Predictive Control Based DC Microgrid Stabilization With the Dual Active Bridge Converter. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 8944-8956	8.9	25
303	Common-Mode Voltage Reduction for Matrix Converters Using All Valid Switch States. *IEEE Transactions on Power Electronics*, **2016**, 31, 8247-8259	7.2	25
302	DC fault ride-through capability and STATCOM operation of a HVDC hybrid voltage source converter. *IET Generation, Transmission and Distribution*, **2014**, 8, 114-120	2.5	24
301	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
300	A Family of Improved Magnetically Coupled Impedance Network Boost DC□DC Converters. *IEEE Transactions on Power Electronics*, **2018**, 33, 3697-3702	7.2	23
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298	**2013**,		23
297	. *IEEE Transactions on Power Electronics*, **2020**, 35, 5267-5278	7.2	23
296	Advanced Control Methods for Power Converters in DG Systems and Microgrids. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5847-5862	8.9	23
295	A Simple Current Control Strategy for a Four-Leg Indirect Matrix Converter. *IEEE Transactions on Power Electronics*, **2015**, 30, 2275-2287	7.2	22
294	Experimental validation of a parallel hybrid modular multilevel voltage source converter for HVDC transmission **2013**,		22
293	Comparison of Stray Load and Inverter-Induced Harmonic Losses in Induction Motors Using Calorimetric and Harmonic Injection Methods. *IEEE Transactions on Industry Applications*, **2010**, 46, 249-255	4.3	22

292	Predictive torque control with input PF correction applied to an induction machine fed by a matrix converter. *Power Electronics Specialist Conference (PESC), IEEE*, **2008**,		22
291	**2016**,		22
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288	Active DC-Link Capacitor Harmonic Current Reduction in Two-Level Back-to-Back Converter. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	20
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286	High-Voltage DC-DC Converter Topology for PV Energy Utilization Investigation and Implementation. *Electric Power Components and Systems*, **2017**, 45, 221-232	1	19
285	A Hybrid Control Method to Suppress the Three-Time Fundamental Frequency Neutral-Point Voltage Fluctuation in a VIENNA Rectifier. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 468-480	5.6	19
284	Control of a wind generation system based on a Brushless Doubly-Fed Induction Generator fed by a matrix converter. *Electric Power Systems Research*, **2013**, 103, 49-60	3.5	19
283	Self-Tuning Resonant Control of a Seven-Leg Back-to-Back Converter for Interfacing Variable-Speed Generators to Four-Wire Loads. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4618-4629	8.9	19
282	Reliability-Oriented Design of Electrical Machines: The Design Process for Machines Insulation Systems MUST Evolve. *IEEE Industrial Electronics Magazine*, **2020**, 14, 20-28	6.2	18
281	Research on the Amplitude Coefficient for Multilevel Matrix Converter Space Vector Modulation. *IEEE Transactions on Power Electronics*, **2012**, 27, 3544-3556	7.2	18
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279	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
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275	Implementation of Wavelet-Based Robust Differential Control for Electric Vehicle Application. *IEEE Transactions on Power Electronics*, **2015**, 30, 6510-6513	7.2	17

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273	Analysis of Wavelet Controller for Robustness in Electronic Differential of Electric Vehicles: An Investigation and Numerical Developments. *Electric Power Components and Systems*, **2016**, 44, 763-773	1	17
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269	Review of model predictive control strategies for matrix converters. *IET Power Electronics*, **2019**, 12, 3021-3032	2.2	16
268	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
267	Coupled-Inductor L-Source Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 5, 1298-1310	5.6	15
266	Overmodulation Methods for Modulated Model Predictive Control and Space Vector Modulation. *IEEE Transactions on Power Electronics*, **2021**, 36, 4549-4559	7.2	15
265	Energy Storage Sizing Strategy for Grid-Tied PV Plants under Power Clipping Limitations. *Energies*, **2019**, 12, 1812	3.1	14
264	Three-phase multilevel inverter configuration for open-winding high power application **2015**,		14
263	Voltage-Double Magnetically Coupled Impedance Source Networks. *IEEE Transactions on Power Electronics*, **2018**, 33, 5983-5994	7.2	14
262	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
261	Introduction to the Special Section on The More Electric Aircraft: Power Electronics, Machines, and Drives. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 3521-3522	8.9	14
260	Advanced integration of multilevel converters into power system **2008**,		14
259	Thermal Design of an Integrated Motor Drive. *Industrial Electronics Society (IECON), Annual Conference of IEEE*, **2006**,		14
258	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
257	A Three-Phase Modular Isolated Matrix Converter. *IEEE Transactions on Power Electronics*, **2019**, 34, 11760-11773	7.2	13

256	A dual inverter for an open end winding induction motor drive without an isolation transformer **2015**,		13
255	Open-circuit fault detection and isolation for modular multilevel converter based on sliding mode observer **2013**,		13
254	Experimental implementation of a multilevel converter for power system integration **2009**,		13
253	A New Modulation Method for the Three-Level-Output-Stage Matrix Converter **2007**,		13
252	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
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245	A repetitive control system for four-leg matrix converters feeding non-linear loads. *Electric Power Systems Research*, **2013**, 104, 18-27	3.5	11
244	A new mains voltage observer for PMSM drives fed by matrix converters **2014**,		11
243	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
242	High step-up cascaded DC–DC converter integrating coupled inductor and passive snubber. *IET Power Electronics*, **2019**, 12, 2414-2423	2.2	11
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224	Current control and reactive power minimization of a direct matrix converter induction motor drive with Modulated Model Predictive Control **2015**,		9
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222	Considerations for the design of a tubular motor for an aerospace application **2011**,		9
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