

Mariusz Malinowski

List of Publications by Year in descending order

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128
papers

9,677
citations

236833

25
h-index

161767

54
g-index

136
all docs

136
docs citations

136
times ranked

4723
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances and Industrial Applications of Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2553-2580.	5.2	3,160
2	A Survey on Cascaded Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2197-2206.	5.2	1,888
3	Simple Direct Power Control of Three-Phase PWM Rectifier Using Space-Vector Modulation (DPC-SVM). IEEE Transactions on Industrial Electronics, 2004, 51, 447-454.	5.2	567
4	Virtual-flux-based direct power control of three-phase PWM rectifiers. IEEE Transactions on Industry Applications, 2001, 37, 1019-1027.	3.3	552
5	A comparative study of control techniques for PWM rectifiers in AC adjustable speed drives. IEEE Transactions on Power Electronics, 2003, 18, 1390-1396.	5.4	422
6	A Simple Voltage Sensorless Active Damping Scheme for Three-Phase PWM Converters With an LCL Filter. IEEE Transactions on Industrial Electronics, 2008, 55, 1876-1880.	5.2	252
7	Comparison of 2.3-kV Medium-Voltage Multilevel Converters for Industrial Medium-Voltage Drives. IEEE Transactions on Industrial Electronics, 2007, 54, 2979-2992.	5.2	244
8	Solar Photovoltaic and Thermal Energy Systems: Current Technology and Future Trends. Proceedings of the IEEE, 2017, 105, 2132-2146.	16.4	136
9	Reactive Power Management in Islanded Microgrid—Proportional Power Sharing in Hierarchical Droop Control. IEEE Transactions on Smart Grid, 2015, 6, 1631-1638.	6.2	126
10	Active Filtering Function of Three-Phase PWM Boost Rectifier Under Different Line Voltage Conditions. IEEE Transactions on Industrial Electronics, 2005, 52, 410-419.	5.2	122
11	Control of Three-Level PWM Converter Applied to Variable-Speed-Type Turbines. IEEE Transactions on Industrial Electronics, 2009, 56, 69-77.	5.2	106
12	Finite-Control-Set Model-Predictive Control for a Quasi-Z-Source Four-Leg Inverter Under Unbalanced Load Condition. IEEE Transactions on Industrial Electronics, 2017, 64, 2560-2569.	5.2	105
13	Grid-Connected Photovoltaic Plants: An Alternative Energy Source, Replacing Conventional Sources. IEEE Industrial Electronics Magazine, 2015, 9, 18-32.	2.3	98
14	Medium-Voltage Drives: Challenges and existing technology. IEEE Power Electronics Magazine, 2016, 3, 29-41.	0.6	92
15	Evaluation of Three-Level Rectifiers for Low-Voltage Utility Applications. IEEE Transactions on Industrial Electronics, 2005, 52, 471-481.	5.2	88
16	Comparison of maximum peak power tracking algorithms for a small wind turbine. Mathematics and Computers in Simulation, 2013, 91, 29-40.	2.4	85
17	Surveying Solid-State Transformer Structures and Controls: Providing Highly Efficient and Controllable Power Flow in Distribution Grids. IEEE Industrial Electronics Magazine, 2020, 14, 56-70.	2.3	76
18	Model Predictive Control for 3-Level 4-Leg Flying Capacitor Converter Operating as Shunt Active Power Filter. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	71

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19	Multilevel Direct Power Control – A Generalized Approach for Grid-Tied Multilevel Converter Applications. IEEE Transactions on Power Electronics, 2014, 29, 5592-5604.	5.4	70
20	Reduction of Switching Losses in Active Power Filters With a New Generalized Discontinuous-PWM Strategy. IEEE Transactions on Industrial Electronics, 2008, 55, 467-471.	5.2	66
21	Optimized Energy-Conversion Systems for Small Wind Turbines: Renewable energy sources in modern distributed power generation systems. IEEE Power Electronics Magazine, 2015, 2, 16-30.	0.6	66
22	Review and comparative study of control techniques for three-phase PWM rectifiers. Mathematics and Computers in Simulation, 2003, 63, 349-361.	2.4	53
23	New direct power control of three-phase PWM boost rectifiers under distorted and imbalanced line voltage conditions. , 0, , .		36
24	Medium-Voltage Power Converter Interface for Multigenerator Marine Energy Conversion Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 1061-1070.	5.2	33
25	Utility-Scale Energy Storage Systems: Converters and Control. IEEE Industrial Electronics Magazine, 2020, 14, 32-52.	2.3	33
26	Control of Three-Phase PWM Rectifiers. , 2002, , 419-459.		31
27	Simple Direct Power Control of Three-Phase PWM Rectifier Using Space Vector Modulation – A Comparative Study. EPE Journal (European Power Electronics and Drives Journal), 2003, 13, 28-34.	0.7	31
28	New Simple Active Damping of Resonance in Three-Phase PWM Converter with LCL Filter. , 0, , .		31
29	Simple sensorless active damping solution for three-phase PWM rectifier with LCL filter. , 2005, , .		31
30	Comparison of Classical and Smart Transformers Impact on MV Distribution Grid. IEEE Transactions on Power Delivery, 2020, 35, 1339-1347.	2.9	25
31	Pulse Width Modulation Techniques for Three-Phase Voltage Source Converters. , 2002, , 89-160.		24
32	Sensorless operation of active damping methods for three-phase PWM converters. , 2005, , .		23
33	A 24-Sided Voltage Space Vector Based IM Drive with Low-Order Harmonic Elimination for the Full Speed Range. IEEE Transactions on Industrial Electronics, 2017, 64, 8437-8445.	5.2	22
34	Ship-to-Shore Versus Shore-to-Ship Synchronization Strategy. IEEE Transactions on Energy Conversion, 2018, 33, 1787-1796.	3.7	21
35	Fault-Tolerant Bidirectional Series Resonant DC-DC Converter with Minimum Number of Components. , 2019, , .		19
36	Novel Control of Three-Phase Active Front-End Converter With Compensation of Unknown Grid-Side Inductance. IEEE Transactions on Industrial Electronics, 2011, 58, 3275-3286.	5.2	18

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37	Adaptive space vector modulator for three-level NPC PWM inverter-fed induction motor. , 0, , .		17
38	Efficiency Optimization of Two Dual Active Bridge Converters Operating in Parallel. IEEE Transactions on Power Electronics, 2020, 35, 6523-6532.	5.4	17
39	Topology-Morphing Photovoltaic Microconverter With Wide MPPT Voltage Window and Post-Fault Operation Capability. IEEE Access, 2020, 8, 153941-153955.	2.6	16
40	DSP implementation of direct power control with constant switching frequency for three-phase PWM rectifiers. , 0, , .		15
41	An Improved Synchronous Reference Frame Method for Active Filters. , 2007, , .		15
42	Configurations, Power Topologies and Applications of Hybrid Distribution Transformers. Energies, 2021, 14, 1215.	1.6	15
43	Ultrawide Voltage Gain Range Microconverter for Integration of Silicon and Thin-Film Photovoltaic Modules in DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 13763-13778.	5.4	15
44	Simulation study of virtual flux based direct power control for three-phase PWM rectifiers. , 0, , .		14
45	Utility-Scale Energy Storage Systems: A Comprehensive Review of Their Applications, Challenges, and Future Directions. IEEE Industrial Electronics Magazine, 2021, 15, 17-27.	2.3	14
46	Finite Control Set Model Predictive Control With Floating Virtual Voltage Vectors for Grid-Connected Voltage Source Converter. IEEE Transactions on Power Electronics, 2021, 36, 11875-11885.	5.4	14
47	Control of Variable-Speed Type Wind Turbines Using Direct Power Control Space Vector Modulated 3-Level PWM Converter. , 2006, , .		13
48	Series-connected T-type Inverters for single-phase grid-connected Photovoltaic Energy System. , 2013, , .		13
49	Five-Level T-type Cascade Converter for Rooftop Grid-Connected Photovoltaic Systems. Energies, 2019, 12, 1743.	1.6	13
50	Overview of Recent Advanced Topologies for Transformerless Dual-Grounded Inverters. IEEE Transactions on Power Electronics, 2022, 37, 12679-12704.	5.4	13
51	Control of AC/DC/AC Converter for Multi MW Wave Dragon Offshore Energy Conversion System. , 2007, , .		12
52	Passivity-Based Control Strategy With Improved Robustness for Single-Phase Three-Level T-Type Rectifiers. IEEE Access, 2021, 9, 59336-59344.	2.6	12
53	Medium-voltage power converter interface for Wave Dragon wave energy conversion system. , 2013, , .		11
54	Feedback Linearization Control of Inverter Fed Induction Motor - with Sliding Mode Speed and Flux Observers. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	10

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55	Hardware methods for detecting global maximum power point in a PV power plant. , 2015, , .		10
56	Transactive Energy: Power Electronics Challenges. IEEE Power Electronics Magazine, 2022, 9, 20-32.	0.6	10
57	Web Based Teaching of Pulse Width Modulation Methods for Three-Phase Two-Level Converters. , 2006, , .		9
58	Design of Small Wind Turbine with Maximum Power Point Tracking Algorithm. , 2011, , .		9
59	Zero Dynamic DC-Link Voltage Control for Current Source Converter Under Grid Disturbances. IEEE Transactions on Power Electronics, 2022, 37, 855-864.	5.4	9
60	Simulation of Single-Phase Cascade Multilevel PWM Converters. , 2007, , .		8
61	Operation of four-leg three-level flying capacitor grid-connected converter for RES. , 2013, , .		8
62	A Twelve Concentric Multilevel Twenty-Four Sided Polygonal Voltage Space Vector Structure for Variable Speed Drives. IEEE Transactions on Power Electronics, 2019, 34, 9906-9915.	5.4	8
63	DSP based direct power control for three-phase PWM rectifier with active filtering function. , 0, , .		7
64	Analysis of multilevel PWM converter based on FLC modules for an AC traction application. , 2009, , .		7
65	Generalized direct power control for grid connected multilevel converters. , 2010, , .		7
66	Modelling and fault-tolerant control of 5-phase induction machine. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 997-1006.	0.8	7
67	Dual Active Bridge for Energy Storage System in Small Wind Turbine. , 2011, , .		6
68	Grid integration issues of PMSG-based residential wind turbines. , 2014, , .		6
69	Review of multilevel converters for application in solid state transformers. Przegląd Elektrotechniczny, 2017, 1, 3-7.	0.1	6
70	Power management in four-leg converter interfacing RES with the grid. , 2013, , .		5
71	Control of simplified multilevel AC-DC-AC converter for small power generation systems. , 2013, , .		5
72	Post-fault operation of Multiphase Energy Generation System. , 2015, , .		5

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73	Space Vector Modulation in Three-Phase Three-Level Flying Capacitor Converter-Fed Adjustable Speed Drive. Studies in Computational Intelligence, 2014, , 335-374.	0.7	5
74	Advanced DSP Control of 3-Level DC/AC Converter for Variable-Speed PMSG. , 2006, , .		4
75	A Comparative Study Between the DPC-SVM and the Multi-Resonant Controller for Power Active Filter Applications. , 2006, , .		4
76	Single-phase cascade multilevel PWM converter based on FLC modules with LC output sine filter. , 2008, , .		4
77	Control of three-phase rectifiers based on voltage equation of the PWM converter. , 2009, , .		4
78	Cascaded H-bridge multilevel converter interface for Wave Dragon energy conversion system. , 2013, , .		4
79	Simple scanning methods for a Global-MPP determination in a PV string. , 2015, , .		4
80	Three-Mode Reconfigurable Rectifier for DC-DC Converters with Wide Input Voltage Range. , 2019, , .		4
81	Simple Technique Reducing Leakage Current for H-Bridge Converter in Transformerless Photovoltaic Generation. Journal of Power Electronics, 2016, 16, 153-162.	0.9	4
82	Design and Characteristics of a Rotor Flux Controlled High Speed Induction Motor Drive Applying Two-Level and Three-Level NPC Voltage Source Converters. , 2005, , .		3
83	DSP/FPGA Control for Variable-Speed Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
84	Control of three-level four-leg flying capacitor converter with active filtering function for RES. , 2013, , .		3
85	Control of Solid State Transformer based on Modular Multilevel Converters with Interconnecting Dual Active Bridges. , 2019, , .		3
86	Wind energy systems. , 2015, , 351-394.		3
87	Comparison of Integrator-based and Dead-Beat Controllers for Shunt Power Active Filters. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
88	Special Section on Multilevel Invertersâ€™Part II. IEEE Transactions on Industrial Electronics, 2010, 57, 2550-2552.	5.2	2
89	Experimental research on model predictive control of 3-level 4-leg Flying Capacitor Converter operating as Shunt Active Power Filter. , 2015, , .		2
90	Proportional reactive power sharing algorithm in Islanded AC microgrid. , 2015, , .		2

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91	Robust multilevel multiphase Energy Generation Systems based on the T-type converter. , 2016, , .		2
92	Stress free shore to ship (S2SP) electrical power networks synchronization. , 2016, , .		2
93	Simple grid current control under strongly distorted grid voltage. , 2017, , .		2
94	A Ten-Level Inverter Fed Drive Scheme with Extended Linear Modulation Range. IEEE Transactions on Industrial Electronics, 2022, 69, 12261-12269.	5.2	2
95	Control algorithm of a DC/AC converter applied in a small wind turbine. , 2011, , .		1
96	IES's 60th Anniversary [Editor's Column]. IEEE Industrial Electronics Magazine, 2011, 5, 2-2.	2.3	1
97	It's Already the 22nd Issue of IEM! [Editor's Column]. IEEE Industrial Electronics Magazine, 2012, 6, 2-2.	2.3	1
98	Supervisory Control for Real Time Reactive Power Flow Optimization in Islanded Microgrids. Computer Aided Chemical Engineering, 2013, , 325-330.	0.3	1
99	A new current control of High Instantaneous Power Impulse Converter. , 2015, , .		1
100	Experimental validation of reconfigurable robust Multilevel Multiphase Energy Generation Systems based on the T-type converters. , 2016, , .		1
101	Modeling of MMC-HVDC for grid integration applications. , 2017, , .		1
102	Modified voltage oriented control resistant to grid voltage disturbances. , 2017, , .		1
103	An induction motor drive scheme generating twenty-four sided voltage space vector structure with linear modulation range near to base speed. , 2017, , .		1
104	SiC Mosfet versus Si IGBT based H-bridge quasi-Z-source converter. , 2018, , .		1
105	Web Based Teaching of Pulse Width Modulation Methods for Three-Phase Two-Level Converters. , 2006, , .		1
106	Advanced DSP Control of 3-Level DC/AC Converter for Variable-Speed PMSG. , 2006, , .		1
107	Implementation of Equal Reactive Power Sharing Algorithm in Droop-Controlled Islanded AC Microgrid. Przegląd Elektrotechniczny, 2015, 1, 83-89.	0.1	1
108	Grid-Connected and Isolated Renewable Energy Systems. Electronics (Switzerland), 2021, 10, 2683.	1.8	1

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109	How Time Flies! [Editor's Column. IEEE Industrial Electronics Magazine, 2010, 4, 2-2.	2.3	0
110	IEEE Industrial Electronics Magazine in ISI Master Journal List [Editor's Column. IEEE Industrial Electronics Magazine, 2010, 4, 2-2.	2.3	0
111	Let's Meet at 2011 ISIE [Editor's Column. IEEE Industrial Electronics Magazine, 2010, 4, 2-2.	2.3	0
112	Looking Back at 2010 [Editor's Column. IEEE Industrial Electronics Magazine, 2010, 4, 2-2.	2.3	0
113	The Outstanding Contributions of Prof. Joachim Holtz [Editor's Column]. IEEE Industrial Electronics Magazine, 2011, 5, 2-2.	2.3	0
114	Celebrating the 60th Anniversary of IES! [Editor's Column]. IEEE Industrial Electronics Magazine, 2011, 5, 2-2.	2.3	0
115	Welcome Our New Editorial Board Members! [Editor's Column]. IEEE Industrial Electronics Magazine, 2011, 5, 2-2.	2.3	0
116	Welcome to the New Editor-in-Chief! [Editor's Column]. IEEE Industrial Electronics Magazine, 2012, 6, 2-2.	2.3	0
117	The Elevated Impact of IEM [Editor's Column]. IEEE Industrial Electronics Magazine, 2012, 6, 2-2.	2.3	0
118	Conferences Inspire Positive Actions [Editor's Column]. IEEE Industrial Electronics Magazine, 2012, 6, 2-2.	2.3	0
119	Message from the SGRE 2015 technical program chairs. , 2015, , .		0
120	EPE'17 ECCEâ€™Europe. EPE Journal (European Power Electronics and Drives Journal), 2015, 25, 4-4.	0.7	0
121	Experimental evaluation of hardware-based Global Maximum Power Point Searching methods. , 2015, , .		0
122	A new topology of high instantaneous power impulse converter. , 2016, , .		0
123	Control of a multi-terminal DC transmission system with reduced power oscillation. , 2017, , .		0
124	Control of grid connected H-bridge quasi-Z source converter with compensation of current distortion at minimized passive components. , 2018, , .		0
125	Introduction to the Special Section on Intelligent Fault Monitoring and Faultâ€™Tolerant Control in Power Electronics, Drives and Renewable Energy Systems. Power Electronics and Drives, 2019, 4, 163-165.	0.6	0
126	Regelung von Stromrichtern mit eingepreister Gleichspannung. , 2012, , 147-177.		0

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127	Modeling of cross-circulating currents in a MMC with parallel connected submodules in Solid State Transformers. , 2021, , .		0
128	Control of cross-circulating currents in a MMC with parallel connected arms in Solid State Transformers. , 2021, , .		0