

# Don Mahinda Vilathgamuwa

## List of Publications by Year in descending order

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312  
papers

9,589  
citations

38660

50  
h-index

48187

88  
g-index

312  
all docs

312  
docs citations

312  
times ranked

6047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Analysis, and Real-Time Testing of a Controller for Multibus Microgrid System. IEEE Transactions on Power Electronics, 2004, 19, 1195-1204.	5.4	569
2	Pulse-Width Modulation of $Z$ -Source Inverters. IEEE Transactions on Power Electronics, 2005, 20, 1346-1355.	5.4	429
3	Microgrid Power Quality Enhancement Using a Three-Phase Four-Wire Grid-Interfacing Compensator. IEEE Transactions on Industry Applications, 2005, 41, 1707-1719.	3.3	299
4	A Sensor Fault Detection and Isolation Method in Interior Permanent-Magnet Synchronous Motor Drives Based on an Extended Kalman Filter. IEEE Transactions on Industrial Electronics, 2013, 60, 3485-3495.	5.2	291
5	Determination of Battery Storage Capacity in Energy Buffer for Wind Farm. IEEE Transactions on Energy Conversion, 2008, 23, 868-878.	3.7	281
6	Nonlinear control of interior permanent-magnet synchronous motor. IEEE Transactions on Industry Applications, 2003, 39, 408-416.	3.3	253
7	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. IEEE Transactions on Industrial Electronics, 2011, 58, 316-328.	5.2	222
8	A grid-interfacing power quality compensator for three-phase three-wire microgrid applications. IEEE Transactions on Power Electronics, 2006, 21, 1021-1031.	5.4	202
9	Dynamic voltage restoration with minimum energy injection. IEEE Transactions on Power Systems, 2000, 15, 51-57.	4.6	201
10	Transient Modeling and Analysis of Pulse-Width Modulated $Z$ -Source Inverter. IEEE Transactions on Power Electronics, 2007, 22, 498-507.	5.4	193
11	Voltage sag compensation with energy optimized dynamic voltage restorer. IEEE Transactions on Power Delivery, 2003, 18, 928-936.	2.9	168
12	An Efficiency Optimization Scheme for Bidirectional Inductive Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 6310-6319.	5.4	168
13	Performance improvement of the dynamic voltage restorer with closed-loop load voltage and current-mode control. IEEE Transactions on Power Electronics, 2002, 17, 824-834.	5.4	165
14	Development of a Comprehensive Model and a Multiloop Controller for $Z$ -Source Inverter DG Systems. IEEE Transactions on Industrial Electronics, 2007, 54, 2352-2359.	5.2	165
15	Protection of Microgrids During Utility Voltage Sags. IEEE Transactions on Industrial Electronics, 2006, 53, 1427-1436.	5.2	162
16	A Robust Control Scheme for Medium-Voltage-Level DVR Implementation. IEEE Transactions on Industrial Electronics, 2007, 54, 2249-2261.	5.2	135
17	Design and Comparison of High Performance Stationary-Frame Controllers for DVR Implementation. IEEE Transactions on Power Electronics, 2007, 22, 602-612.	5.4	123
18	$Z$ -Source-Inverter-Based Flexible Distributed Generation System Solution for Grid Power Quality Improvement. IEEE Transactions on Energy Conversion, 2009, 24, 695-704.	3.7	123

#	ARTICLE	IF	CITATIONS
19	A Novel Technique to Compensate Voltage Sags in Multiline Distribution Systemâ€”The Interline Dynamic Voltage Restorer. IEEE Transactions on Industrial Electronics, 2006, 53, 1603-1611.	5.2	113
20	A SiC-Based Matrix Converter Topology for Inductive Power Transfer System. IEEE Transactions on Power Electronics, 2014, 29, 4029-4038.	5.4	113
21	A Generalized Voltage Compensation Strategy for Mitigating the Impacts of Voltage Sags/Swells. IEEE Transactions on Power Delivery, 2005, 20, 2289-2297.	2.9	111
22	Direct Integration of Battery Energy Storage Systems in Distributed Power Generation. IEEE Transactions on Energy Conversion, 2011, 26, 677-685.	3.7	108
23	Design of a Least-Cost Battery-Supercapacitor Energy Storage System for Realizing Dispatchable Wind Power. IEEE Transactions on Sustainable Energy, 2013, 4, 786-796.	5.9	103
24	An experimentally verified hybrid Cassie-Mayr electric arc model for power electronics simulations. IEEE Transactions on Power Electronics, 1997, 12, 429-436.	5.4	98
25	Diode-Clamped Three-Level Inverter-Based Battery/Supercapacitor Direct Integration Scheme for Renewable Energy Systems. IEEE Transactions on Power Electronics, 2011, 26, 3720-3729.	5.4	96
26	A physics-based distributed-parameter equivalent circuit model for lithium-ion batteries. Electrochimica Acta, 2019, 299, 451-469.	2.6	93
27	A Dual-Functional Medium Voltage Level DVR to Limit Downstream Fault Currents. IEEE Transactions on Power Electronics, 2007, 22, 1330-1340.	5.4	92
28	Implementation of an artificial-neural-network-based real-time adaptive controller for an interior permanent-magnet motor drive. IEEE Transactions on Industry Applications, 2003, 39, 96-104.	3.3	90
29	Investigation and Improvement of Transient Response of DVR at Medium Voltage Level. IEEE Transactions on Industry Applications, 2007, 43, 1309-1319.	3.3	84
30	Analysis of Series Compensation and DC-Link Voltage Controls of a Transformerless Self-Charging Dynamic Voltage Restorer. IEEE Transactions on Power Delivery, 2004, 19, 1511-1518.	2.9	82
31	Small-Signal and Signal-Flow-Graph Modeling of Switched Z-Source Impedance Network. IEEE Power Electronics Letters, 2005, 3, 111-116.	1.1	81
32	Sensor fault detection, isolation and system reconfiguration based on extended Kalman filter for induction motor drives. IET Electric Power Applications, 2013, 7, 607-617.	1.1	77
33	Constrained Ensemble Kalman Filter for Distributed Electrochemical State Estimation of Lithium-Ion Batteries. IEEE Transactions on Industrial Informatics, 2021, 17, 240-250.	7.2	76
34	Modeling and Control of a Resonant Dual Active Bridge with a Tuned CLLC Network. IEEE Transactions on Power Electronics, 2015, , 1-1.	5.4	75
35	A hybrid maximum power point tracking for partially shaded photovoltaic systems in the tropics. Renewable Energy, 2015, 76, 53-65.	4.3	73
36	Design and analysis of the inverter-side filter used in the dynamic voltage restorer. IEEE Transactions on Power Delivery, 2002, 17, 857-864.	2.9	71

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37	Transformerless dynamic voltage restorer. IET Generation, Transmission and Distribution, 2002, 149, 263.	1.1	71
38	A Series Compensator With Fault Current Limiting Function. IEEE Transactions on Power Delivery, 2005, 20, 2248-2256.	2.9	67
39	Design of minimum cost degradation-conscious lithium-ion battery energy storage system to achieve renewable power dispatchability. Applied Energy, 2020, 260, 114282.	5.1	64
40	Interline Dynamic Voltage Restorer: A Novel and Economical Approach for Multiline Power Quality Compensation. IEEE Transactions on Industry Applications, 2004, 40, 1678-1685.	3.3	63
41	Robust Control Scheme for a Microgrid With PFC Capacitor Connected. IEEE Transactions on Industry Applications, 2007, 43, 1172-1182.	3.3	63
42	Dual Z-Source Inverter With Three-Level Reduced Common-Mode Switching. IEEE Transactions on Industry Applications, 2007, 43, 1597-1608.	3.3	62
43	Efficiency Enhancement for Dynamic Wireless Power Transfer System With Segmented Transmitter Array. IEEE Transactions on Transportation Electrification, 2016, 2, 76-85.	5.3	61
44	Z-Source Current-Type Inverters: Digital Modulation and Logic Implementation. IEEE Transactions on Power Electronics, 2007, 22, 169-177.	5.4	59
45	Adaptive Ensemble-Based Electrochemical Thermal Degradation State Estimation of Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2022, 69, 6984-6996.	5.2	59
46	Modulation and Control of Three-Phase Paralleled Z-Source Inverters for Distributed Generation Applications. IEEE Transactions on Energy Conversion, 2009, 24, 173-183.	3.7	55
47	Stability analysis of microgrids with constant power loads. , 2008, , .		54
48	Modeling and Analysis of a Novel Variable-Speed Cage Induction Generator. IEEE Transactions on Industrial Electronics, 2012, 59, 1020-1028.	5.2	54
49	Coat Circuits for DC-DC Converters to Improve Voltage Conversion Ratio. IEEE Transactions on Power Electronics, 2020, 35, 3679-3687.	5.4	54
50	Five-level Z-source diode-clamped inverter. IET Power Electronics, 2010, 3, 500.	1.5	53
51	Design considerations on the line-side filter used in the dynamic voltage restorer. IET Generation, Transmission and Distribution, 2001, 148, 1.	1.1	52
52	Half-Wave Cycloconverter-Based Photovoltaic Microinverter Topology With Phase-Shift Power Modulation. IEEE Transactions on Power Electronics, 2013, 28, 2700-2710.	5.4	51
53	Flying Supercapacitors as Power Smoothing Elements in Wind Generation. IEEE Transactions on Industrial Electronics, 2013, 60, 2909-2918.	5.2	49
54	Sensor Fault-Resilient Control of Interior Permanent-Magnet Synchronous Motor Drives. IEEE/ASME Transactions on Mechatronics, 2015, 20, 855-864.	3.7	49

#	ARTICLE	IF	CITATIONS
55	Development of a degradation-conscious physics-based lithium-ion battery model for use in power system planning studies. Applied Energy, 2019, 248, 512-525.	5.1	49
56	Optimization of a Wireless Power Transfer System With a Repeater Against Load Variations. IEEE Transactions on Industrial Electronics, 2017, 64, 7800-7809.	5.2	47
57	Power Buffer With Model Predictive Control for Stability of Vehicular Power Systems With Constant Power Loads. IEEE Transactions on Power Electronics, 2013, 28, 5804-5812.	5.4	45
58	An Improved Robust Field-Weakening Algorithm for Direct-Torque-Controlled Synchronous-Reluctance-Motor Drives. IEEE Transactions on Industrial Electronics, 2015, 62, 3255-3264.	5.2	44
59	Figure of Merit for the Optimization of Wireless Power Transfer System Against Misalignment Tolerance. IEEE Transactions on Power Electronics, 2017, 32, 4359-4369.	5.4	44
60	High-impedance fault detection and classification in power system distribution networks using morphological fault detector algorithm. IET Generation, Transmission and Distribution, 2018, 12, 3699-3710.	1.4	42
61	Inter-module state-of-charge balancing and fault-tolerant operation of cascaded H-bridge converter using multi-dimensional modulation for electric vehicle application. IET Power Electronics, 2015, 8, 1912-1919.	1.5	40
62	Variable structure control of voltage sourced reversible rectifiers. IET Electric Power Applications, 1996, 143, 18.	1.4	39
63	A novel compact PMSM with magnetic bearing for artificial heart application. IEEE Transactions on Industry Applications, 2000, 36, 1061-1068.	3.3	38
64	Modeling and design of multi-loop closed loop controller for Z-source inverter for Distributed Generation. , 0, , .		38
65	Topological Design and Modulation Strategy for Buck-Boost Three-Level Inverters. IEEE Transactions on Power Electronics, 2009, 24, 1722-1732.	5.4	38
66	Particle swarm optimisation-based modified SHE method for cascaded H-bridge multilevel inverters. IET Power Electronics, 2017, 10, 18-28.	1.5	38
67	Interline dynamic voltage restorer: an economical way to improve interline power quality. IET Generation, Transmission and Distribution, 2003, 150, 513.	1.1	37
68	Expandable N-Legged Converter to Drive Closely Spaced Multitransmitter Wireless Power Transfer Systems for Dynamic Charging. IEEE Transactions on Power Electronics, 2020, 35, 3794-3806.	5.4	37
69	Robust Adaptive Control of a Three-Axis Motion Simulator With State Observers. IEEE/ASME Transactions on Mechatronics, 2005, 10, 437-448.	3.7	36
70	A novel matrix converter based resonant dual active bridge for V2G applications. , 2012, , .		36
71	A robust control method to improve the performance of a unified power flow controller. Electric Power Systems Research, 2000, 55, 103-111.	2.1	35
72	Mitigation of distorted and unbalanced stator voltage of stand-alone doubly fed induction generators using repetitive control technique. IET Electric Power Applications, 2013, 7, 654-663.	1.1	34

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73	Electrochemical Model-Based Fast Charging: Physical Constraint-Triggered PI Control. IEEE Transactions on Energy Conversion, 2021, 36, 3208-3220.	3.7	34
74	Modeling and Sensorless Direct Torque and Flux Control of a Dual-Airgap Axial Flux Permanent-Magnet Machine With Field-Weakening Operation. IEEE/ASME Transactions on Mechatronics, 2014, 19, 412-422.	3.7	33
75	Enhanced Metaheuristic Methods for Selective Harmonic Elimination Technique. IEEE Transactions on Industrial Informatics, 2018, 14, 5210-5220.	7.2	32
76	Basic control of interline power flow controller. , 0, , .		31
77	Evaluation of Resonant Damping Techniques for Z-Source Current-Type Inverter. IEEE Transactions on Power Electronics, 2008, 23, 2035-2043.	5.4	31
78	A Statistical Evaluation of the Capability of Distributed Renewable Generator-Energy-Storage System in Providing Load Low-Voltage Ride-Through. IEEE Transactions on Power Delivery, 2015, 30, 1128-1136.	2.9	31
79	Optimum Transmitter Current Distribution for Dynamic Wireless Power Transfer With Segmented Array. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 346-356.	2.9	31
80	A Computationally Efficient Coupled Electrochemical-Thermal Model for Large Format Cylindrical Lithium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3059-A3071.	1.3	31
81	Model Order Reduction Techniques for Physics-Based Lithium-Ion Battery Management: A Survey. IEEE Industrial Electronics Magazine, 2022, 16, 36-51.	2.3	31
82	Performance Evaluation of Three-Level Z-Source Inverters Under Semiconductor-Failure Conditions. IEEE Transactions on Industry Applications, 2009, 45, 971-981.	3.3	29
83	A Dual Inverter-Based Supercapacitor Direct Integration Scheme for Wind Energy Conversion Systems. IEEE Transactions on Industry Applications, 2013, 49, 1023-1030.	3.3	28
84	A PWM Scheme for a Fault-Tolerant Three-Level Quasi-Switched Boost T-Type Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3029-3040.	3.7	28
85	A PSpice model for the electrical characteristics of fluorescent lamps. , 0, , .		27
86	A Switching Control Strategy for Single- and Dual-Inductor Current-Fed Push-Pull Converters. IEEE Transactions on Power Electronics, 2015, 30, 3761-3771.	5.4	26
87	Z-source current-type inverters: digital modulation and logic implementation. , 0, , .		25
88	A Padé Approximate Model of Lithium Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1409-A1421.	1.3	25
89	Observer-based robust adaptive control of pmsm with initial rotor position uncertainty. IEEE Transactions on Industry Applications, 2003, 39, 645-656.	3.3	24
90	Voltage Sag Compensation With Z-Source Inverter Based Dynamic Voltage Restorer. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	24

#	ARTICLE	IF	CITATIONS
91	Energy storage systems in distributed generation schemes. , 2008, , .		24
92	A three-phase to single-phase matrix converter based bi-directional IPT system for charging electric vehicles. , 2013, , .		23
93	Control and analysis of a new dynamic voltage restorer circuit topology for mitigating long duration voltage sags. , 0, , .		22
94	Rectifier systems for variable speed wind generation - a review. , 2012, , .		22
95	Nonâ€isolated highâ€voltage gain dualâ€input DC/DC converter with a ZVT auxiliary circuit. IET Power Electronics, 2019, 12, 861-868.	1.5	22
96	Singleâ€switch high stepâ€up boost converter based on a novel voltage multiplier. IET Power Electronics, 2019, 12, 3732-3738.	1.5	22
97	Transient modeling and analysis of pulse-width modulated z-source inverter. , 0, , .		21
98	Five-Level Current-Source Inverters With Buckâ€Boost and Inductive-Current Balancing Capabilities. IEEE Transactions on Industrial Electronics, 2010, 57, 2613-2622.	5.2	21
99	A Series-Connected Photovoltaic Distributed Generator Capable of Enhancing Power Quality. IEEE Transactions on Energy Conversion, 2013, 28, 1026-1035.	3.7	21
100	A simple and efficient hybrid maximum power point tracking method for PV systems under partially shaded condition. , 2013, , .		21
101	Morphological Fault Detector for Adaptive Overcurrent Protection in Distribution Networks With Increasing Photovoltaic Penetration. IEEE Transactions on Sustainable Energy, 2018, 9, 1021-1029.	5.9	21
102	Space vector modulated cascade multi-level inverter for PMSG wind generation systems. , 2009, , .		20
103	Cascade multilevel static synchronous compensator configuration for wind farms. IET Power Electronics, 2011, 4, 548.	1.5	20
104	Primary Frequency Control Scheme for a Fixed-Speed Dish-Stirling Solarâ€Thermal Power Plant. IEEE Transactions on Power Systems, 2018, 33, 2184-2194.	4.6	20
105	DC-Link Quasi-Switched Boost Inverter With Improved PWM Strategy and its Comparative Evaluation. IEEE Access, 2020, 8, 53857-53867.	2.6	20
106	A new control strategy for energy-saving dynamic voltage restoration. , 0, , .		19
107	Power Electronics for Photovoltaic Power Systems. Synthesis Lectures on Power Electronics, 2015, 5, 1-131.	1.7	19
108	Inductively coupled modular battery system for electric vehicles. IET Power Electronics, 2016, 9, 600-609.	1.5	19

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109	Enhancement of power system damping using VSC-based series connected FACTS controllers. IET Generation, Transmission and Distribution, 2003, 150, 353.	1.1	18
110	Micro-grid power quality enhancement using a three-phase four-wire grid-interfacing compensator. , 0, , .		18
111	A grid-interfacing power quality compensator for three-phase three-wire microgrid applications. , 0, , .		18
112	Topological and Modulation Design of a Buck-Boost Three-Level Dual Inverter. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	18
113	Z-source converter based grid-interface for variable-speed permanent magnet wind turbine generators. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	18
114	A new method of interfacing battery/supercapacitor energy storage systems for distributed energy sources. , 2010, , .		18
115	Three-phase bidirectional wireless EV charging system with high tolerance to pad misalignment. IET Power Electronics, 2019, 12, 2697-2705.	1.5	18
116	Damping of power system oscillations using SSSC in real-time implementation. International Journal of Electrical Power and Energy Systems, 2004, 26, 357-364.	3.3	17
117	A Voltage-Sag Compensation Scheme Based on the Concept of Power Quality Control Center. IEEE Transactions on Power Delivery, 2006, 21, 296-304.	2.9	17
118	Virtual resistance based active damping solution for constant power instability in AC microgrids. , 2011, , .		17
119	A direct integration scheme for battery-supercapacitor hybrid energy storage systems with the use of grid side inverter. , 2011, , .		17
120	High step-up SVMC-based DC/DC converter for offshore wind farms. IET Power Electronics, 2019, 12, 1445-1454.	1.5	17
121	Modelling, analysis and control of unified power quality conditioner. , 0, , .		15
122	Nonlinear control of interior permanent magnet synchronous motor. , 0, , .		15
123	Modeling and robust adaptive control of a 3-axis motion simulator. , 0, , .		14
124	A Battery Energy Storage interface for wind power systems with the use of grid side inverter. , 2010, , .		14
125	An Active Power Decoupling Method for Single Phase DC/AC DAB Converters. IEEE Access, 2019, 7, 12964-12972.	2.6	14
126	SiC-based active quasi-Z-source inverter with improved PWM control strategy. IET Power Electronics, 2019, 12, 3810-3821.	1.5	14



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127	Dual inverter based battery energy storage system for grid connected photovoltaic systems. , 2010, , .		13
128	Coil enhancements for high efficiency wireless power transfer applications. , 2014, , .		12
129	Modelling of DC arcs for photovoltaic system faults. , 2016, , .		12
130	DC bus voltage stability improvement using disturbance observer feedforward control. Control Engineering Practice, 2018, 75, 118-125.	3.2	12
131	DC Arc Fault Detection For Grid-Connected Large-Scale Photovoltaic Systems. IEEE Journal of Photovoltaics, 2020, 10, 1489-1502.	1.5	12
132	An experimental investigation of dynamic voltage restorer (DVR). , 0, , .		11
133	Cascaded multilevel converter based bidirectional inductive power transfer (BIPT) system. , 2014, , .		11
134	Analysis on normalized distance and scalability in designing wireless power transfer. , 2015, , .		11
135	A three port resonant solid state transformer with minimized circulating reactive currents in the high frequency link. , 2016, , .		11
136	Wheel slip control based on traction force estimaton of electric locomotives. , 2016, , .		11
137	An equivalent circuit model of li-ion battery based on electrochemical principles used in grid-connected energy storage applications. , 2017, , .		11
138	Revisiting Two-Port Network Analysis for Wireless Power Transfer (WPT) Systems. , 2018, , .		11
139	Mobile-Energy-as-a-Service (MEaaS): Sustainable Electromobility via Integrated Energyâ€“Transportâ€“Urban Infrastructure. Sustainability, 2022, 14, 2796.	1.6	11
140	A comparative study of inverter- and line-side filtering schemes in the dynamic voltage restorer. , 0, , .		10
141	Design and Comparison of High Performance Stationary-Frame Controllers for DVR Implementation. , 0, , .		10
142	Performance Analysis of Random Pulse-Width Modulated Z-Source Inverter with Reduced Common Mode Switching. , 0, , .		10
143	State of charge estimation of lithium ion batteries using an extended single particle model and sigma-point Kalman filter. , 2017, , .		10
144	Modeling and Position-Sensorless Control of a Dual-Airgap Axial Flux Permanent Magnet Machine for Flywheel Energy Storage Systems. Journal of Power Electronics, 2012, 12, 758-768.	0.9	10

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145	On the injection transformer used in the dynamic voltage restorer. , 0, , .		9
146	A novel dynamic series compensator with closed-loop voltage and current mode control for voltage sag mitigation. International Journal of Electronics, 2003, 90, 695-706.	0.9	9
147	Investigation and Improvement of Transient Response of DVR at Medium Voltage Level. , 0, , .		9
148	The Design of a Fuel-Cell-Based Power-Quality Control Center to Realize Unbundled Power-Quality Supply. IEEE Transactions on Power Delivery, 2006, 21, 1421-1429.	2.9	9
149	Modelling of Three phase Z-Source Boost Buck Rectifiers. , 2007, , .		9
150	Controller design for variable-speed permanent magnet wind turbine generators interfaced with Z-source inverter. , 2009, , .		9
151	A dual inverter with integrated energy storage for wind power systems. , 2010, , .		9
152	Mode switching DFIG for low voltage ride through. , 2011, , .		9
153	A unique battery/supercapacitor direct integration scheme for hybrid electric vehicles. , 2011, , .		9
154	Controller Synthesis of a Bidirectional Inductive Power Interface for electric vehicles. , 2012, , .		9
155	Inter-module SoC balancing control for CHB based BESS using multi-dimensional modulation. , 2013, , .		9
156	Modeling and control of a CLC Resonant Dual Active Bridge. , 2014, , .		9
157	Matlab simulation of lithium ion cell using electrochemical single particle model. , 2016, , .		9
158	A dual inverter based supercapacitor direct integration scheme for wind energy conversion systems. , 2010, , .		8
159	A matrix converter based Inductive Power Transfer system. , 2012, , .		8
160	Modelling of a magnetocaloric system for cooling in the kilowatt range. International Journal of Refrigeration, 2014, 43, 143-153.	1.8	8
161	A modified cascaded multilevel converter topology for high power bidirectional inductive power transfer systems with the reduction of switching devices and power losses. , 2015, , .		8
162	Multilevel converter topologies based high power inductive power transfer systems. , 2016, , .		8

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163	Detection and identification of high impedance faults in single wire earth return distribution networks. , 2016, , .		8
164	Virtual Resistor-Based Integrated DC Bus Voltage Conditioner for Stability Improvement of Cascaded Power Converters. IEEE Access, 2019, 7, 95959-95969.	2.6	8
165	Generic Uncertainty Parameter Analysis and Optimization of Series-Resonant Series Wireless Power Transfer System for Robust Controller Design. IEEE Transactions on Industrial Electronics, 2022, 69, 4107-4118.	5.2	8
166	A Trusted and Privacy-Preserving Internet of Mobile Energy. IEEE Communications Magazine, 2021, 59, 89-95.	4.9	8
167	Multilevel dynamic voltage restorer. , 0, , .		7
168	Dual Z-source Inverter with Three-Level Reduced Common Mode Switching. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	7
169	Performance evaluation of buck-boost three-level inverters with topological and modulation development. , 2007, , .		7
170	Component-Minimized Buck-Boost Voltage Source Inverters. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	7
171	Mitigating Zero Sequence Effects in Dynamic Voltage Restorers. , 2007, , .		7
172	Buffer scheme with battery energy storage capability for enhancement of network transient stability and load ride-through. Journal of Power Sources, 2008, 179, 819-829.	4.0	7
173	Pulse width modulated buck-boost five-level current source inverters. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	7
174	An analysis on the possibility of using capacitors of a three-level capacitor clamped inverter as power smoothing elements for wind power systems. , 2011, , .		7
175	Cascaded sliding mode control for global stability of three phase AC/DC PWM rectifier with rapidly varying power electronic loads. , 2013, , .		7
176	Analysis of impedance matched circuit for wireless power transfer. , 2014, , .		7
177	A Generic Control-Oriented Model Order Reduction Approach for High Step-Up DC/DC Converters Based on Voltage Multiplier. Energies, 2019, 12, 1971.	1.6	7
178	Interline dynamic voltage restorer: a novel and economical approach for multi-line power quality compensation. , 0, , .		6
179	An Observer-Based Robust Adaptive Controller for Permanent Magnet Synchronous Motor Drive With Initial Rotor Angle Uncertainty. IEEE Transactions on Energy Conversion, 2005, 20, 115-120.	3.7	6
180	Connecting two wind turbine generators to the grid using only one three level NPC inverter. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
181	Design of a renewable &#x2014; hybrid energy storage power scheme for short-term power dispatch. , 2011, , .		6
182	High-frequency-link micro-inverter with front-end current-fed half-bridge boost converter and half-wave cycloconverter. , 2013, , .		6
183	Novel modulation strategy for a CLC resonant dual active bridge. , 2015, , .		6
184	An improved dispatchable wind turbine generator and dual-battery energy storage system to reduce battery capacity requirement. , 2016, , .		6
185	Dissimilar trend of nonlinearity in ultrasound transducers and systems at resonance and non-resonance frequencies. Ultrasonics, 2017, 74, 21-29.	2.1	6
186	A single phase DC-AC dual active bridge series resonant converter for photovoltaic applications. , 2017, , .		6
187	Identification scheme of maximum traction force using recursive least square for traction control in electric locomotives. , 2017, , .		6
188	Effects of adjacent transmitter current for multi-transmitter wireless power transfer. , 2017, , .		6
189	Detection of high impedance faults in PV systems using mathematical morphology. , 2018, , .		6
190	Expandable N-Legged Converter for Dynamic Wireless Power Transfer. , 2018, , .		6
191	Graph Sets Method for Multicoil Wireless Power Transfer Systemsâ€™Part I: Principles. IEEE Transactions on Power Electronics, 2020, 35, 10741-10756.	5.4	6
192	Impacts of Voltage Phase Shift on Motor Loads and Series Custom Power Devices Including Converter Thermal Effects. IEEE Transactions on Power Delivery, 2004, 19, 1941-1949.	2.9	5
193	Component-Minimized Buck-Boost Voltage Source Inverters. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	5
194	A cascade multilevel STATCOM for wind generation systems. , 2009, , .		5
195	A model for a multi-sourced Green Energy system. , 2010, , .		5
196	A hybrid cascaded multilevel inverter with supercapacitor direct integration for wind power systems. , 2011, , .		5
197	Control of solar powered micro-grids using electric vehicles. , 2012, , .		5
198	Mitigation of harmonics of DFIGs in DC-microgrids. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
199	Double star chopper cell converter for battery electric vehicles with inter-module SoC balancing and fault tolerant control. , 2014, , .		5
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