Don Mahinda Vilathgamuwa

List of Publications by Citations

257 papers	6,431 citations	42 h-index	72 g-index
312 ext. papers	8,308 ext. citations	5.1 avg, IF	6.15 L-index

#	Paper	IF	Citations
257	Design, analysis, and real-time testing of a controller for multibus microgrid system. *IEEE Transactions on Power Electronics*, **2004**, 19, 1195-1204	7.2	449
256	Pulse-width modulation of Z-source inverters. *IEEE Transactions on Power Electronics*, **2005**, 20, 1346-1355	7.2	298
255	Microgrid power quality enhancement using a three-phase four-wire grid-interfacing compensator. *IEEE Transactions on Industry Applications*, **2005**, 41, 1707-1719	4.3	217
254	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	8.9	209
253	Determination of Battery Storage Capacity in Energy Buffer for Wind Farm. *IEEE Transactions on Energy Conversion*, **2008**, 23, 868-878	5.4	198
252	Nonlinear control of interior permanent-magnet synchronous motor. *IEEE Transactions on Industry Applications*, **2003**, 39, 408-416	4.3	171
251	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 316-328	8.9	164
250	A grid-interfacing power quality compensator for three-phase three-wire microgrid applications. *IEEE Transactions on Power Electronics*, **2006**, 21, 1021-1031	7.2	147
249	Transient Modeling and Analysis of Pulse-Width Modulated Z-Source Inverter. *IEEE Transactions on Power Electronics*, **2007**, 22, 498-507	7.2	139
248	Dynamic voltage restoration with minimum energy injection. *IEEE Transactions on Power Systems*, **2000**, 15, 51-57	7	137
247	Protection of Microgrids During Utility Voltage Sags. *IEEE Transactions on Industrial Electronics*, **2006**, 53, 1427-1436	8.9	127
246	Development of a Comprehensive Model and a Multiloop Controller for Z-Source Inverter DG Systems. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 2352-2359	8.9	123
245	Voltage sag compensation with energy optimized dynamic voltage restorer. *IEEE Transactions on Power Delivery*, **2003**, 18, 928-936	4.3	111
244	An Efficiency Optimization Scheme for Bidirectional Inductive Power Transfer Systems. *IEEE Transactions on Power Electronics*, **2015**, 30, 6310-6319	7.2	108
243	A Robust Control Scheme for Medium-Voltage-Level DVR Implementation. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 2249-2261	8.9	101
242	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	7.2	101
241	Z-Source-Inverter-Based Flexible Distributed Generation System Solution for Grid Power Quality Improvement. *IEEE Transactions on Energy Conversion*, **2009**, 24, 695-704	5.4	99

240	Design and Comparison of High Performance Stationary-Frame Controllers for DVR Implementation. *IEEE Transactions on Power Electronics*, **2007**, 22, 602-612	7.2	85
239	Design of a Least-Cost Battery-Supercapacitor Energy Storage System for Realizing Dispatchable Wind Power. *IEEE Transactions on Sustainable Energy*, **2013**, 4, 786-796	8.2	78
238	A Novel Technique to Compensate Voltage Sags in Multiline Distribution System□The Interline Dynamic Voltage Restorer. *IEEE Transactions on Industrial Electronics*, **2006**, 53, 1603-1611	8.9	78
237	A SiC-Based Matrix Converter Topology for Inductive Power Transfer System. *IEEE Transactions on Power Electronics*, **2014**, 29, 4029-4038	7.2	73
236	A generalized voltage compensation strategy for mitigating the impacts of voltage sags/swells. *IEEE Transactions on Power Delivery*, **2005**, 20, 2289-2297	4.3	69
235	Diode-Clamped Three-Level Inverter-Based Battery/Supercapacitor Direct Integration Scheme for Renewable Energy Systems. *IEEE Transactions on Power Electronics*, **2011**, 26, 3720-3729	7.2	65
234	An experimentally verified hybrid Cassie-Mayr electric arc model for power electronics simulations. *IEEE Transactions on Power Electronics*, **1997**, 12, 429-436	7.2	65
233	Direct Integration of Battery Energy Storage Systems in Distributed Power Generation. *IEEE Transactions on Energy Conversion*, **2011**, 26, 677-685	5.4	63
232	A Dual-Functional Medium Voltage Level DVR to Limit Downstream Fault Currents. *IEEE Transactions on Power Electronics*, **2007**, 22, 1330-1340	7.2	60
231	Small-signal and signal-flow-graph modeling of switched Z-source impedance network. *IEEE Power Electronics Letters*, **2005**, 3, 111-116		60
230	Investigation and Improvement of Transient Response of DVR at Medium Voltage Level. *IEEE Transactions on Industry Applications*, **2007**, 43, 1309-1319	4.3	59
229	Transformerless dynamic voltage restorer. *IET Generation, Transmission and Distribution*, **2002**, 149, 263		57
228	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	4.3	56
227	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	4.3	55
226	Sensor fault detection, isolation and system reconfiguration based on extended Kalman filter for induction motor drives. *IET Electric Power Applications*, **2013**, 7, 607-617	1.8	53
225	A hybrid maximum power point tracking for partially shaded photovoltaic systems in the tropics. *Renewable Energy*, **2015**, 76, 53-65	8.1	52
224	Design and analysis of the inverter-side filter used in the dynamic voltage restorer. *IEEE Transactions on Power Delivery*, **2002**, 17, 857-864	4.3	52
223	Modeling and Control of a Resonant Dual Active Bridge With a Tuned CLLC Network. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	50

222	A physics-based distributed-parameter equivalent circuit model for lithium-ion batteries. *Electrochimica Acta*, **2019**, 299, 451-469	6.7	49
221	Modulation and Control of Three-Phase Paralleled Z-Source Inverters for Distributed Generation Applications. *IEEE Transactions on Energy Conversion*, **2009**, 24, 173-183	5.4	47
220	Robust Control Scheme for a Microgrid With PFC Capacitor Connected. *IEEE Transactions on Industry Applications*, **2007**, 43, 1172-1182	4.3	45
219	Efficiency Enhancement for Dynamic Wireless Power Transfer System With Segmented Transmitter Array. *IEEE Transactions on Transportation Electrification*, **2016**, 2, 76-85	7.6	44
218	Five-level Z-source diode-clamped inverter. *IET Power Electronics*, **2010**, 3, 500	2.2	44
217	A Series Compensator With Fault Current Limiting Function. *IEEE Transactions on Power Delivery*, **2005**, 20, 2248-2256	4.3	43
216	Dual Z-Source Inverter With Three-Level Reduced Common-Mode Switching. *IEEE Transactions on Industry Applications*, **2007**, 43, 1597-1608	4.3	42
215	Half-Wave Cycloconverter-Based Photovoltaic Microinverter Topology With Phase-Shift Power Modulation. *IEEE Transactions on Power Electronics*, **2013**, 28, 2700-2710	7.2	41
214	Flying Supercapacitors as Power Smoothing Elements in Wind Generation. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 2909-2918	8.9	41
213	Sensor Fault-Resilient Control of Interior Permanent-Magnet Synchronous Motor Drives. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 855-864	5.5	40
212	Z-Source Current-Type Inverters: Digital Modulation and Logic Implementation. *IEEE Transactions on Power Electronics*, **2007**, 22, 169-177	7.2	40
211	Interline dynamic voltage restorer: a novel and economical approach for multiline power quality compensation. *IEEE Transactions on Industry Applications*, **2004**, 40, 1678-1685	4.3	40
210	Modeling and Analysis of a Novel Variable-Speed Cage Induction Generator. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 1020-1028	8.9	38
209	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	7.2	37
208	Figure of Merit for the Optimization of Wireless Power Transfer System Against Misalignment Tolerance. *IEEE Transactions on Power Electronics*, **2017**, 32, 4359-4369	7.2	34
207	An Improved Robust Field-Weakeaning Algorithm for Direct-Torque-Controlled Synchronous-Reluctance-Motor Drives. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 3255-3264	8.9	34
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205	Constrained Ensemble Kalman Filter for Distributed Electrochemical State Estimation of Lithium-Ion Batteries. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 240-250	11.9	34

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201	A novel compact PMSM with magnetic bearing for artificial heart application. *IEEE Transactions on Industry Applications*, **2000**, 36, 1061-1068	4.3	30
200	Topological Design and Modulation Strategy for BuckBoost Three-Level Inverters. *IEEE Transactions on Power Electronics*, **2009**, 24, 1722-1732	7.2	29
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189	Interline dynamic voltage restorer: an economical way to improve interline power quality. *IET Generation, Transmission and Distribution*, **2003**, 150, 513		24
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186	A novel matrix converter based resonant dual active bridge for V2G applications **2012**,		22
185	Observer-based robust adaptive control of PMSM with initial rotor position uncertainty. *IEEE Transactions on Industry Applications*, **2003**, 39, 645-656	4.3	21
184	Adaptive Ensemble-Based Electrochemical-Thermal-Degradation State Estimation of Lithium-Ion Batteries. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	21
183	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	5.5	20
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180	A Switching Control Strategy for Single- and Dual-Inductor Current-Fed Push-Pull Converters. *IEEE Transactions on Power Electronics*, **2015**, 30, 3761-3771	7.2	19
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178	Z-source current-type inverters: digital modulation and logic implementation **2005**,		19
177	Energy storage systems in distributed generation schemes **2008**,		18
176	Enhanced Metaheuristic Methods for Selective Harmonic Elimination Technique. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 5210-5220	11.9	17
175	Space vector modulated cascade multi-level inverter for PMSG wind generation systems **2009**,		17
174	A Computationally Efficient Coupled Electrochemical-Thermal Model for Large Format Cylindrical Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A3059-A3071	3.9	16
173	A three-phase to single-phase matrix converter based bi-directional IPT system for charging electric vehicles **2013**,		16
172	A Series-Connected Photovoltaic Distributed Generator Capable of Enhancing Power Quality. *IEEE Transactions on Energy Conversion*, **2013**, 28, 1026-1035	5.4	16
171	Single-switch high step-up boost converter based on a novel voltage multiplier. *IET Power Electronics*, **2019**, 12, 3732-3738	2.2	16
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166	A voltage-sag compensation scheme based on the concept of power quality control center. *IEEE Transactions on Power Delivery*, **2006**, 21, 296-304	4.3	14
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163	Non-isolated high-voltage gain dual-input DC/DC converter with a ZVT auxiliary circuit. *IET Power Electronics*, **2019**, 12, 861-868	2.2	13
162	DC-Link Quasi-Switched Boost Inverter With Improved PWM Strategy and its Comparative Evaluation. *IEEE Access*, **2020**, 8, 53857-53867	3.5	13
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157	Voltage Sag Compensation With Z-Source Inverter Based Dynamic Voltage Restorer. *Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)*, **2006**,		13
156	Topological and Modulation Design of a Buck-Boost Three-Level Dual Inverter. *Industrial Electronics Society (IECON), Annual Conference of IEEE*, **2006**,		13
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153	Control and analysis of a new dynamic voltage restorer circuit topology for mitigating long duration voltage sags **2002**,		13
152	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	5.6	13
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150	Virtual resistance based active damping solution for constant power instability in AC microgrids **2011**,		12
149	Transient modeling and analysis of pulse-width modulated Z-source inverter **2005**,		12
148	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	7.2	12
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146	Rectifier systems for variable speed wind generation - a review **2012**,		11
145	A direct integration scheme for battery-supercapacitor hybrid energy storage systems with the use of grid side inverter **2011**,		11
144	A new control strategy for energy-saving dynamic voltage restoration **2000**,		11
143	SiC-based active quasi-Z-source inverter with improved PWM control strategy. *IET Power Electronics* , **2019**, 12, 3810-3821	2.2	11
142	Dual inverter based battery energy storage system for grid connected photovoltaic systems **2010**,		10
141	Modelling, analysis and control of unified power quality conditioner **1998**,		10
140	Analysis on normalized distance and scalability in designing wireless power transfer **2015**,		9
139	Primary Frequency Control Scheme for a Fixed-Speed Dish-Stirling Solar□thermal Power Plant. *IEEE Transactions on Power Systems*, **2018**, 33, 2184-2194	7	9
138	Wheel slip control based on traction force estimaton of electric locomotives **2016**,		9
137	Three-phase bi-directional wireless EV charging system with high tolerance to pad misalignment. *IET Power Electronics*, **2019**, 12, 2697-2705	2.2	9
136	A Battery Energy Storage interface for wind power systems with the use of grid side inverter **2010**,		9
135	Performance analysis of random pulse-width modulated Z-source inverter with reduced common mode switching **2006**,		9
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133	DC bus voltage stability improvement using disturbance observer feedforward control. *Control Engineering Practice*, **2018**, 75, 118-125	3.9	8

132	Coil enhancements for high efficiency wireless power transfer applications **2014**,		8
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130	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	1.2	8
129	Electrochemical Model-Based Fast Charging: Physical Constraint-Triggered PI Control. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	8
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126	Investigation and improvement of transient response of DVR at medium voltage level **2006**,		7
125	A grid-interfacing power quality compensator for three-phase three-wire microgrid applications **2004**,		7
124	A comparative study of inverter- and line-side filtering schemes in the dynamic voltage restorer **2000**,		7
123	A three port resonant solid state transformer with minimized circulating reactive currents in the high frequency link **2016**,		7
122	State of charge estimation of lithium ion batteries using an extended single particle model and sigma-point Kalman filter **2017**,		6
121	Cascaded multilevel converter based bidirectional inductive power transfer (BIPT) system **2014**,		6
120	A modified cascaded multilevel converter topology for high power bidirectional inductive power transfer systems with the reduction of switching devices and power losses **2015**,		6
119	Controller Synthesis of a Bidirectional Inductive Power Interface for electric vehicles **2012**,		6
118	Inter-module SoC balancing control for CHB based BESS using multi-dimensional modulation **2013**,		6
117	Performance evaluation of buck-boost three-level inverters with topological and modulation development **2007**,		6
116	Multilevel dynamic voltage restorer **2004**,		6
115	An improved dispatchable wind turbine generator and dual-battery energy storage system to reduce battery capacity requirement **2016**,		6

114	Model Order Reduction Techniques for Physics-Based Lithium-Ion Battery Management: A Survey. *IEEE Industrial Electronics Magazine*, **2021**, 2-18	6.2	6
113	Optimization of double spiral metamaterial for wireless power transfer **2015**,		5
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109	A matrix converter based Inductive Power Transfer system **2012**,		5
108	A dual inverter based supercapacitor direct integration scheme for wind energy conversion systems **2010**,		5
107	Connecting two wind turbine generators to the grid using only one three level NPC inverter **2010**,		5
106	A unique battery/supercapacitor direct integration scheme for hybrid electric vehicles **2011**,		5
105	An analysis on the possibility of using capacitors of a three-level capacitor clamped inverter as power smoothing elements for wind power systems **2011**,		5
104	Controller design for variable-speed permanent magnet wind turbine generators interfaced with Z-source inverter **2009**,		5
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99	Matlab simulation of lithium ion cell using electrochemical single particle model **2016**,		5
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93	Novel modulation strategy for a CLC resonant dual active bridge **2015**,		4
92	Analysis of impedance matched circuit for wireless power transfer **2014**,		4
91	Cascaded sliding mode control for global stability of three phase AC/DC PWM rectifier with rapidly varying power electronic loads **2013**,		4
90	A modular matrix converter for transformer-less PMSG wind generation systems **2011**,		4
89	A model for a multi-sourced Green Energy system **2010**,		4
88	Grid-side cascade inverter system as an interface for wind energy storage **2010**,		4
87	A cascade multilevel STATCOM for wind generation systems **2009**,		4
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79	Effects of adjacent transmitter current for multi-transmitter wireless power transfer **2017**,		3

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77	Efficiency optimization for bidirectional IPT system **2014**,		3
76	Optimal control of film growth in dual lithium-ion battery energy storage system **2017**,		3
75	Identification scheme of maximum traction force using recursive least square for traction control in electric locomotives **2017**,		3
74	Double star chopper cell converter for battery electric vehicles with inter-module SoC balancing and fault tolerant control **2014**,		3
73	Soft-switching single inductor current-fed push-pull converter for PV applications **2014**,		3
72	Modeling and control of a CLC Resonant Dual Active Bridge **2014**,		3
71	High-frequency-link micro-inverter with front-end current-fed half-bridge boost converter and half-wave cycloconverter **2013**,		3
70	An integrated communication system with a web interface for Distributed Generation systems **2010**,		3
69	Design of a renewable hybrid energy storage power scheme for short-term power dispatch **2011** ,		3
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63	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	4.3	3
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60	Multiple Input-Terminal Voltage Multiplier Circuit. *IEEE Transactions on Industry Applications*, **2020**, 56, 5075-5082	4.3	3
59	Repeater tuning against load variation for wireless power transfer **2016**,		3
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55	Detection and identification of high impedance faults in single wire earth return distribution networks **2016**,		2
54	MPC and Energy Storage Based Frequency Regulation Strategy for Hybrid Electric Ships **2018**,		2
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49	HFL PV micro-inverter with front-end current-fed converter and half-wave cycloconverter **2014**,		2
48	Control of solar powered micro-grids using electric vehicles **2012**,		2
47	Mitigation of harmonics of DFIGs in DC-microgrids **2012**,		2
46	A model for estimating grid side harmonics of matrix converter based bi-directional IPT systems **2013**,		2
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44	A Bit-Stream based space vector modulator **2010**,		2
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