

Don Mahinda Vilathgamuwa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mobile-Energy-as-a-Service (MEaaS): Sustainable Electromobility via Integrated EnergyTransportUrban Infrastructure. <i>Sustainability</i> , 2022 , 14, 2796	3.6	3
256	A Trusted and Privacy-Preserving Internet of Mobile Energy. <i>IEEE Communications Magazine</i> , 2021 , 59, 89-95	9.1	4
255	Constrained Ensemble Kalman Filter for Distributed Electrochemical State Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 240-250	11.9	34
254	Electrochemical Model-Based Fast Charging: Physical Constraint-Triggered PI Control. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	8
253	Generic Uncertainty Parameter Analysis and Optimization of Series-Series Wireless Power Transfer System for Robust Controller Design. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
252	Estimation of the Transferred Power in LCC Compensated Wireless Power Transmitters with the use of PWM-Synchronized Sampling Technique. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	1
251	Model Order Reduction Techniques for Physics-Based Lithium-Ion Battery Management: A Survey. <i>IEEE Industrial Electronics Magazine</i> , 2021 , 2-18	6.2	6
250	Adaptive Ensemble-Based Electrochemical-Thermal-Degradation State Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	21
249	DC Arc Fault Detection For Grid-Connected Large-Scale Photovoltaic Systems. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 1489-1502	3.7	3
248	Graph Sets Method for Multicoil Wireless Power Transfer SystemsPart I: Principles. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10741-10756	7.2	1
247	Graph Sets Method (GSM) for Multicoil Wireless Power Transfer SystemsPart II: Simulated and Experimental Results. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10757-10769	7.2	1
246	DC-Link Quasi-Switched Boost Inverter With Improved PWM Strategy and its Comparative Evaluation. <i>IEEE Access</i> , 2020 , 8, 53857-53867	3.5	13
245	Modeling and Control of a Discontinuous Quasi-Switched Boost Cascaded Multilevel Inverter for Grid-Tied Applications 2020 ,		1
244	Design of minimum cost degradation-conscious lithium-ion battery energy storage system to achieve renewable power dispatchability. <i>Applied Energy</i> , 2020 , 260, 114282	10.7	31
243	Multiple Input-Terminal Voltage Multiplier Circuit. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5075-5082	4.3	3
242	Combined Primary Frequency and Virtual Inertia Response Control Scheme of a Variable-Speed Dish-Stirling System. <i>IEEE Access</i> , 2020 , 8, 151719-151730	3.5	1
241	Expandable N-Legged Converter to Drive Closely Spaced Multitransmitter Wireless Power Transfer Systems for Dynamic Charging. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3794-3806	7.2	12

240	Coat Circuits for DCDC Converters to Improve Voltage Conversion Ratio. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3679-3687	7.2	28
239	A PWM Scheme for a Fault-Tolerant Three-Level Quasi-Switched Boost T-Type Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3029-3040	5.6	13
238	A Computationally Efficient Coupled Electrochemical-Thermal Model for Large Format Cylindrical Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3059-A3071	3.9	16
237	An Active Power Decoupling Method for Single Phase DC/AC DAB Converters. <i>IEEE Access</i> , 2019 , 7, 12964-12972	3.5	12
236	High step-up SVMC-based DC/DC converter for offshore wind farms. <i>IET Power Electronics</i> , 2019 , 12, 1445-1454	2.2	14
235	A Generic Control-Oriented Model Order Reduction Approach for High Step-Up DC/DC Converters Based on Voltage Multiplier. <i>Energies</i> , 2019 , 12, 1971	3.1	0
234	Development of a degradation-conscious physics-based lithium-ion battery model for use in power system planning studies. <i>Applied Energy</i> , 2019 , 248, 512-525	10.7	27
233	Non-isolated high-voltage gain dual-input DC/DC converter with a ZVT auxiliary circuit. <i>IET Power Electronics</i> , 2019 , 12, 861-868	2.2	13
232	Modulation and control method for double-switch buckBoost converter. <i>IET Power Electronics</i> , 2019 , 12, 1160-1169	2.2	2
231	Virtual Resistor-Based Integrated DC Bus Voltage Conditioner for Stability Improvement of Cascaded Power Converters. <i>IEEE Access</i> , 2019 , 7, 95959-95969	3.5	2
230	Multiple Input-Terminal Voltage Multiplier Circuit 2019 ,		1
229	High Power High Step-up DC/DC Converter Based on Multiple Input-Terminal Voltage Multiplier 2019 ,		1
228	Three-phase bi-directional wireless EV charging system with high tolerance to pad misalignment. <i>IET Power Electronics</i> , 2019 , 12, 2697-2705	2.2	9
227	Feedforward control method for single-phase inverters with non-linear load. <i>IET Power Electronics</i> , 2019 , 12, 3131-3140	2.2	1
226	Elimination of current oscillation in isolated three-port power converters using active damping method. <i>IET Power Electronics</i> , 2019 , 12, 2802-2809	2.2	2
225	Single-switch high step-up boost converter based on a novel voltage multiplier. <i>IET Power Electronics</i> , 2019 , 12, 3732-3738	2.2	16
224	Soft Switching in Closely Spaced Multi-Transmitter Wireless Power Transfer Systems 2019 ,		1
223	SiC-based active quasi-Z-source inverter with improved PWM control strategy. <i>IET Power Electronics</i> , 2019 , 12, 3810-3821	2.2	11

222	A Study on DC-Link-Type Quasi-Switched-Boost Inverters with Improved Voltage Gain 2019 ,		2
221	A physics-based distributed-parameter equivalent circuit model for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 299, 451-469	6.7	49
220	Morphological Fault Detector for Adaptive Overcurrent Protection in Distribution Networks With Increasing Photovoltaic Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1021-1029	8.2	13
219	DC bus voltage stability improvement using disturbance observer feedforward control. <i>Control Engineering Practice</i> , 2018 , 75, 118-125	3.9	8
218	Enhanced Metaheuristic Methods for Selective Harmonic Elimination Technique. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5210-5220	11.9	17
217	Detection of high impedance faults in PV systems using mathematical morphology 2018 ,		3
216	Optimum Transmitter Current Distribution for Dynamic Wireless Power Transfer With Segmented Array. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 346-356	4.1	19
215	Primary Frequency Control Scheme for a Fixed-Speed Dish-Stirling Solar Thermal Power Plant. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2184-2194	7	9
214	Loop-shaping method based current sharing controller design for parallel DC/DC converters. <i>IET Power Electronics</i> , 2018 , 11, 1937-1945	2.2	1
213	Percutaneous and transcutaneous connections 2018 , 659-689		
212	A Pad Approximate Model of Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1409-A1421	3.9	13
211	MPC and Energy Storage Based Frequency Regulation Strategy for Hybrid Electric Ships 2018 ,		2
210	Power Decoupling of a Single Phase DC-AC Dual Active Bridge Converter Based on an Integrated Bidirectional Buck/Boost Stage. <i>Energies</i> , 2018 , 11, 2746	3.1	1
209	Disturbance Rejection Control Method for Isolated Three-Port Converter with Virtual Damping. <i>Energies</i> , 2018 , 11, 3204	3.1	1
208	Nonlinear Model Predictive Control of Photovoltaic-Battery System for Short-Term Power Dispatch 2018 ,		2
207	Expandable N-Legged Converter for Dynamic Wireless Power Transfer 2018 ,		2
206	Development of Control Strategy to Increase the Lifetime of Grid-Connected Li-Ion Battery 2018 ,		2
205	High-impedance fault detection and classification in power system distribution networks using morphological fault detector algorithm. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 3699-3710	2.5	20

204	Optimization of a Wireless Power Transfer System With a Repeater Against Load Variations. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7800-7809	8.9	24
203	Figure of Merit for the Optimization of Wireless Power Transfer System Against Misalignment Tolerance. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4359-4369	7.2	34
202	State of charge estimation of lithium ion batteries using an extended single particle model and sigma-point Kalman filter 2017 ,		6
201	Effects of adjacent transmitter current for multi-transmitter wireless power transfer 2017 ,		3
200	An equivalent circuit model of li-ion battery based on electrochemical principles used in grid-connected energy storage applications 2017 ,		5
199	Dissimilar trend of nonlinearity in ultrasound transducers and systems at resonance and non-resonance frequencies. <i>Ultrasonics</i> , 2017 , 74, 21-29	3.5	5
198	Particle swarm optimisation-based modified SHE method for cascaded H-bridge multilevel inverters. <i>IET Power Electronics</i> , 2017 , 10, 18-28	2.2	28
197	Optimal control of film growth in dual lithium-ion battery energy storage system 2017 ,		3
196	Challenges in high impedance fault detection due to increasing penetration of photovoltaics in radial distribution feeder 2017 ,		5
195	Identification scheme of maximum traction force using recursive least square for traction control in electric locomotives 2017 ,		3
194	Wheel slip control based on traction force estimation of electric locomotives 2016 ,		9
193	Detection and identification of high impedance faults in single wire earth return distribution networks 2016 ,		2
192	Efficiency Enhancement for Dynamic Wireless Power Transfer System With Segmented Transmitter Array. <i>IEEE Transactions on Transportation Electrification</i> , 2016 , 2, 76-85	7.6	44
191	Inductively coupled modular battery system for electric vehicles. <i>IET Power Electronics</i> , 2016 , 9, 600-609	2.2	11
190	On assessment of prominent heuristic methods towards selective harmonic mitigation 2016 ,		1
189	A three port resonant solid state transformer with minimized circulating reactive currents in the high frequency link 2016 ,		7
188	Matlab simulation of lithium ion cell using electrochemical single particle model 2016 ,		5
187	An improved dispatchable wind turbine generator and dual-battery energy storage system to reduce battery capacity requirement 2016 ,		6

186	Frequency modulation of a series resonant dual active bridge to minimize the circulating reactive currents in the high frequency link 2016 ,		1
185	Modelling of DC arcs for photovoltaic system faults 2016 ,		5
184	Multilevel converter topologies based high power inductive power transfer systems 2016 ,		4
183	Repeater tuning against load variation for wireless power transfer 2016 ,		3
182	Analysis on normalized distance and scalability in designing wireless power transfer 2015 ,		9
181	Design of mode switching scheme for low-voltage ride-through of doubly fed induction generators. <i>IET Renewable Power Generation</i> , 2015 , 9, 109-119	2.9	4
180	Hybrid cascaded multilevel inverter with supercapacitor energy storage for grid integration of renewable energy systems 2015 ,		2
179	Dual inverter system with integrated energy storage for grid connected photovoltaic systems 2015 ,		2
178	A multilevel converter topology based bidirectional inductive power transfer system with improved characteristics 2015 ,		4
177	Optimization of double spiral metamaterial for wireless power transfer 2015 ,		5
176	Power Electronics for Photovoltaic Power Systems. <i>Synthesis Lectures on Power Electronics</i> , 2015 , 5, 1-134		14
175	An Efficiency Optimization Scheme for Bidirectional Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6310-6319	7.2	108
174	Sensor Fault-Resilient Control of Interior Permanent-Magnet Synchronous Motor Drives. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 855-864	5.5	40
173	A Statistical Evaluation of the Capability of Distributed Renewable Generator-Energy-Storage System in Providing Load Low-Voltage Ride-Through. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1128-1136	4.3	26
172	A hybrid maximum power point tracking for partially shaded photovoltaic systems in the tropics. <i>Renewable Energy</i> , 2015 , 76, 53-65	8.1	52
171	A Switching Control Strategy for Single- and Dual-Inductor Current-Fed PushBull Converters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3761-3771	7.2	19
170	Modeling and Control of a Resonant Dual Active Bridge With a Tuned CLLC Network. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	50
169	Sensorless direct torque control of interior permanent magnet synchronous motor drives using the current derivative approach 2015 ,		2

168	Tunable metamaterials for optimization of wireless power transfer systems 2015,		4
167	Novel modulation strategy for a CLC resonant dual active bridge 2015,		4
166	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
165	Inter-module state-of-charge balancing and fault-tolerant operation of cascaded H-bridge converter using multi-dimensional modulation for electric vehicle application. <i>IET Power Electronics,</i> 2015, 8, 1912-1919	2.2	30
164	An Improved Robust Field-Weakening Algorithm for Direct-Torque-Controlled Synchronous-Reluctance-Motor Drives. <i>IEEE Transactions on Industrial Electronics,</i> 2015, 62, 3255-3264	8.9	34
163	A SiC-Based Matrix Converter Topology for Inductive Power Transfer System. <i>IEEE Transactions on Power Electronics,</i> 2014, 29, 4029-4038	7.2	73
162	Cascaded multilevel converter based bidirectional inductive power transfer (BIPT) system 2014,		6
161	Optimized switching control strategy for current-fed half-bridge converter 2014,		2
160	Efficiency optimization for bidirectional IPT system 2014,		3
159	Modeling and Sensorless Direct Torque and Flux Control of a Dual-Airgap Axial Flux Permanent-Magnet Machine With Field-Weakening Operation. <i>IEEE/ASME Transactions on Mechatronics,</i> 2014, 19, 412-422	5.5	20
158	Coil enhancements for high efficiency wireless power transfer applications 2014,		8
157	Double star chopper cell converter for battery electric vehicles with inter-module SoC balancing and fault tolerant control 2014,		3
156	Soft-switching single inductor current-fed push-pull converter for PV applications 2014,		3
155	Modeling and control of a CLC Resonant Dual Active Bridge 2014,		3
154	HFL PV micro-inverter with front-end current-fed converter and half-wave cycloconverter 2014,		2
153	Analysis of impedance matched circuit for wireless power transfer 2014,		4
152	Modelling of a magnetocaloric system for cooling in the kilowatt range. <i>International Journal of Refrigeration,</i> 2014, 43, 143-153	3.8	7
151	A three-phase to single-phase matrix converter based bi-directional IPT system for charging electric vehicles 2013,		16

150	A Series-Connected Photovoltaic Distributed Generator Capable of Enhancing Power Quality. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 1026-1035	5.4	16
149	Mitigation of distorted and unbalanced stator voltage of stand-alone doubly fed induction generators using repetitive control technique. <i>IET Electric Power Applications</i> , 2013 , 7, 654-663	1.8	26
148	Sensor fault detection, isolation and system reconfiguration based on extended Kalman filter for induction motor drives. <i>IET Electric Power Applications</i> , 2013 , 7, 607-617	1.8	53
147	Photovoltaic micro-inverter with front-end DC-DC converter and half-wave cycloconverter 2013 ,		1
146	Half-Wave Cycloconverter-Based Photovoltaic Microinverter Topology With Phase-Shift Power Modulation. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2700-2710	7.2	41
145	A technique for improving grid side harmonic distortion of matrix converter based bi-directional IPT systems 2013 ,		1
144	A Dual Inverter-Based Supercapacitor Direct Integration Scheme for Wind Energy Conversion Systems. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1023-1030	4.3	20
143	A Sensor Fault Detection and Isolation Method in Interior Permanent-Magnet Synchronous Motor Drives Based on an Extended Kalman Filter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 3485-3495	8.9	209
142	Power Buffer With Model Predictive Control for Stability of Vehicular Power Systems With Constant Power Loads. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 5804-5812	7.2	37
141	Flying Supercapacitors as Power Smoothing Elements in Wind Generation. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2909-2918	8.9	41
140	Design of a Least-Cost Battery-Supercapacitor Energy Storage System for Realizing Dispatchable Wind Power. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 786-796	8.2	78
139	A model for estimating grid side harmonics of matrix converter based bi-directional IPT systems 2013 ,		2
138	High-frequency-link micro-inverter with front-end current-fed half-bridge boost converter and half-wave cycloconverter 2013 ,		3
137	Cascaded sliding mode control for global stability of three phase AC/DC PWM rectifier with rapidly varying power electronic loads 2013 ,		4
136	Inter-module SoC balancing control for CHB based BESS using multi-dimensional modulation 2013 ,		6
135	A simple and efficient hybrid maximum power point tracking method for PV systems under partially shaded condition 2013 ,		15
134	Bit-stream-based space vector modulators. <i>IET Power Electronics</i> , 2012 , 5, 205	2.2	4
133	Modeling and Analysis of a Novel Variable-Speed Cage Induction Generator. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 1020-1028	8.9	38

132	Rectifier systems for variable speed wind generation - a review 2012 ,		11
131	Control of solar powered micro-grids using electric vehicles 2012 ,		2
130	Mitigation of harmonics of DFIGs in DC-microgrids 2012 ,		2
129	Controller Synthesis of a Bidirectional Inductive Power Interface for electric vehicles 2012 ,		6
128	A matrix converter based Inductive Power Transfer system 2012 ,		5
127	Corrections to Modeling and Analysis of a Novel Variable Speed Cage Induction Generator [Feb 12 1020-1028]. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 4164-4164	8.9	
126	A novel matrix converter based resonant dual active bridge for V2G applications 2012 ,		22
125	A loop cancellation based active damping solution for constant power instability in vehicular power systems 2012 ,		1
124	Modeling and Position-Sensorless Control of a Dual-Airgap Axial Flux Permanent Magnet Machine for Flywheel Energy Storage Systems. <i>Journal of Power Electronics</i> , 2012 , 12, 758-768	0.9	3
123	A hybrid cascaded multilevel inverter with supercapacitor direct integration for wind power systems 2011 ,		2
122	A direct integration scheme for battery-supercapacitor hybrid energy storage systems with the use of grid side inverter 2011 ,		11
121	A modular matrix converter for transformer-less PMSG wind generation systems 2011 ,		4
120	Direct Integration of Battery Energy Storage Systems in Distributed Power Generation. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 677-685	5.4	63
119	Mode switching DFIG for low voltage ride through 2011 ,		1
118	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 316-328	8.9	164
117	Cascade multilevel static synchronous compensator configuration for wind farms. <i>IET Power Electronics</i> , 2011 , 4, 548	2.2	12
116	A statistical approach to quantify the impact on voltage quality caused by PV generators 2011 ,		2
115	Virtual resistance based active damping solution for constant power instability in AC microgrids 2011 ,		12

114	Diode-Clamped Three-Level Inverter-Based Battery/Supercapacitor Direct Integration Scheme for Renewable Energy Systems. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3720-3729	7.2	65
113	A unique battery/supercapacitor direct integration scheme for hybrid electric vehicles 2011 ,		5
112	Design of a renewable hybrid energy storage power scheme for short-term power dispatch 2011 ,		3
111	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
110	Battery clamped three-level inverter for renewable energy systems 2011 ,		1
109	Dual inverter based battery energy storage system for grid connected photovoltaic systems 2010 ,		10
108	A novel dc-link voltage regulation method for single source hybrid multilevel inverters 2010 ,		1
107	A Battery Energy Storage interface for wind power systems with the use of grid side inverter 2010 ,		9
106	A dual inverter with integrated energy storage for wind power systems 2010 ,		8
105	A new method of interfacing battery/supercapacitor energy storage systems for distributed energy sources 2010 ,		14
104	A dual inverter based supercapacitor direct integration scheme for wind energy conversion systems 2010 ,		5
103	Connecting two wind turbine generators to the grid using only one three level NPC inverter 2010 ,		5
102	Five-Level Current-Source Inverters With BuckBoost and Inductive-Current Balancing Capabilities. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2613-2622	8.9	13
101	A model for a multi-sourced Green Energy system 2010 ,		4
100	Grid-side cascade inverter system as an interface for wind energy storage 2010 ,		4
99	An integrated communication system with a web interface for Distributed Generation systems 2010 ,		3
98	A Bit-Stream based space vector modulator 2010 ,		2
97	Five-level Z-source diode-clamped inverter. <i>IET Power Electronics</i> , 2010 , 3, 500	2.2	44

96	Topological Design and Modulation Strategy for BuckBoost Three-Level Inverters. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1722-1732	7.2	29
95	Modulation and Control of Three-Phase Paralleled Z-Source Inverters for Distributed Generation Applications. <i>IEEE Transactions on Energy Conversion</i> , 2009 , 24, 173-183	5.4	47
94	Controller design for variable-speed permanent magnet wind turbine generators interfaced with Z-source inverter 2009 ,		5
93	A cascade multilevel STATCOM for wind generation systems 2009 ,		4
92	Space vector modulated cascade multi-level inverter for PMSG wind generation systems 2009 ,		17
91	Z-Source-Inverter-Based Flexible Distributed Generation System Solution for Grid Power Quality Improvement. <i>IEEE Transactions on Energy Conversion</i> , 2009 , 24, 695-704	5.4	99
90	Performance Evaluation of Three-Level Z-Source Inverters Under Semiconductor-Failure Conditions. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 971-981	4.3	23
89	Determination of Battery Storage Capacity in Energy Buffer for Wind Farm. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 868-878	5.4	198
88	Stability analysis of microgrids with constant power loads 2008 ,		34
87	Evaluation of Resonant Damping Techniques for Z-Source Current-Type Inverter. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2035-2043	7.2	24
86	Z-source converter based grid-interface for variable-speed permanent magnet wind turbine generators. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		13
85	Energy storage systems in distributed generation schemes 2008 ,		18
84	Dynamic analysis of three phase Z-source boost-buck rectifier 2008 ,		3
83	Pulse width modulated buck-boost five-level current source inverters. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3
82	Buffer scheme with battery energy storage capability for enhancement of network transient stability and load ride-through. <i>Journal of Power Sources</i> , 2008 , 179, 819-829	8.9	5
81	Performance Evaluation of Three-Level Z-Source Inverters Under Semiconductor Failure Conditions. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		2
80	Topological Design and Modulation Strategy for Buck-Boost Three-Level Inverters 2007 ,		1
79	Development of a Comprehensive Model and a Multiloop Controller for Z-Source Inverter DG Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2352-2359	8.9	123

78	Transient Modeling and Analysis of Pulse-Width Modulated Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 498-507	7.2	139
77	ZZZ-Source Current-Type Inverters: Digital Modulation and Logic Implementation. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 169-177	7.2	40
76	Component-Minimized Buck-Boost Voltage Source Inverters. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		4
75	Modelling of Three phase Z-Source Boost Buck Rectifiers 2007 ,		5
74	Performance evaluation of buck-boost three-level inverters with topological and modulation development 2007 ,		6
73	Transient Modeling and Control of Z-Source Current Type Inverter. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		2
72	Robust Control Scheme for a Microgrid With PFC Capacitor Connected. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 1172-1182	4.3	45
71	Investigation and Improvement of Transient Response of DVR at Medium Voltage Level. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 1309-1319	4.3	59
70	Dual Z-Source Inverter With Three-Level Reduced Common-Mode Switching. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 1597-1608	4.3	42
69	Five-Level Z-Source Neutral-Point-Clamped Inverter 2007 ,		3
68	A Dual-Functional Medium Voltage Level DVR to Limit Downstream Fault Currents. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1330-1340	7.2	60
67	A Z-source Inverter Based Flexible DG System with P+resonance and Repetitive Controllers for Power Quality Improvement of a Weak Grid 2007 ,		1
66	A Robust Control Scheme for Medium-Voltage-Level DVR Implementation. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2249-2261	8.9	101
65	Design and Comparison of High Performance Stationary-Frame Controllers for DVR Implementation. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 602-612	7.2	85
64	Four-leg parallel Z-source inverter based DG systems to enhance the grid performance under unbalanced conditions 2007 ,		2
63	Mitigating Zero Sequence Effects in Dynamic Voltage Restorers 2007 ,		3
62	Dual Z-source Inverter with Three-Level Reduced Common Mode Switching. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		7
61	Performance analysis of random pulse-width modulated Z-source inverter with reduced common mode switching 2006 ,		9

60	Modeling and design of multi-loop closed loop controller for Z-source inverter for distributed generation 2006 ,		25
59	A dual-functional medium voltage level DVR to limit downstream fault currents 2006 ,		1
58	Voltage Sag Compensation With Z-Source Inverter Based Dynamic Voltage Restorer. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		13
57	Investigation and improvement of transient response of DVR at medium voltage level 2006 ,		7
56	A voltage-sag compensation scheme based on the concept of power quality control center. <i>IEEE Transactions on Power Delivery</i> , 2006 , 21, 296-304	4-3	14
55	The design of a fuel-cell-based power-quality control center to realize unbundled power-quality supply. <i>IEEE Transactions on Power Delivery</i> , 2006 , 21, 1421-1429	4-3	4
54	A grid-interfacing power quality compensator for three-phase three-wire microgrid applications. <i>IEEE Transactions on Power Electronics</i> , 2006 , 21, 1021-1031	7-2	147
53	A Novel Technique to Compensate Voltage Sags in Multiline Distribution System The Interline Dynamic Voltage Restorer. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 1603-1611	8-9	78
52	Topological and Modulation Design of a Buck-Boost Three-Level Dual Inverter. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		13
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