

Pooya Davari

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

129 papers	1,680 citations	23 h-index	34 g-index
154 ext. papers	2,405 ext. citations	4.5 avg, IF	5.69 L-index

#	Paper	IF	Citations
129	Mathematical Model of Common-Mode Sources in Long-Cable-Fed Adjustable Speed Drives. <i>IEEE Transactions on Industry Applications</i> , 2022 , 58, 2013-2028	4.3	
128	Reliability Improvement of Voltage Regulator Modules by a Virtual Series Voltage Source. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
127	Online DC-Link Capacitance Monitoring for Digital-Controlled Boost PFC Converters without Additional Sampling Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
126	A Mixed Conduction Mode Controlled Bridgeless Boost PFC Converter and Its Mission Profile Based Reliability Analysis. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
125	Overview of Power Electronic Converter Topologies Enabling Large-Scale Hydrogen Production via Water Electrolysis. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1906	2.6	4
124	Effect of Choke Placement on Common-Mode Noise in Three-Phase Variable Speed Drives. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	
123	Robustness of Model-Predictive and Passivity-Based Control in the Three-Phase DC/AC Converter Application. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4329	2.6	0
122	High Power Factor Bridgeless Integrated Buck-Type PFC Converter with Wide Output Voltage Range. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
121	Differential Mode Noise Estimation and Filter Design for Interleaved Boost Power Factor Correction Converters. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2716	2.6	1
120	A Practical Approach to Model a Cable with Nonlinear Material Characteristics 2021 ,		1
119	Frequency security constrained control of power electronic-based generation systems. <i>IET Renewable Power Generation</i> , 2021 , 15, 2246-2256	2.9	1
118	Bridgeless PFC Topology Simplification and Design for Performance Benchmarking. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5398-5414	7.2	10
117	Fuzzy-based frequency security evaluation of wind-integrated power systems. <i>IET Energy Systems Integration</i> , 2021 , 3, 451	3.3	0
116	Review of Harmonic Mitigation Methods in Microgrid: From a Hierarchical Control Perspective. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3044-3060	5.6	12
115	Nonlinear $\%C_{oss}-V_{DS}$ Profile Based ZVS Range Calculation for Dual Active Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 45-50	7.2	9
114	Reduced-Order and Aggregated Modeling of Large-Signal Synchronization Stability for Multiconverter Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3150-3165	5.6	12
113	A Multistructure Multimode Three-Phase Dual-Active-Bridge Converter Targeting Wide-Range High-Efficiency Performance. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3078-3098	7.2	2

112	Reliability of Power Electronic Systems for EV/HEV Applications. <i>Proceedings of the IEEE</i> , 2021 , 109, 1060-1076	13
111	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3692-3716	7.2 39
110	Reliability Analysis of Capacitors in Voltage Regulator Modules With Consecutive Load Transients. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2481-2487	7.2 7
109	An Optimized Hybrid Modulation Scheme for Reducing Conduction Losses in Dual Active Bridge Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 921-936	5.6 18
108	Differential mode noise prediction and analysis in single-phase boost PFC for the new frequency range of 9- 150 kHz. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6 2
107	An Adaptive Model Predictive Voltage Control for LC-Filtered Voltage Source Inverters. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 704	2.6 4
106	Online Capacitance Monitoring for DC/DC Boost Converters Based on Low-Sampling-Rate Approach. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6 2
105	A Single-Phase Reduced Component Count Asymmetrical Multilevel Inverter Topology. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6 5
104	Influence of phase-locked loop aggregation on the dynamic aggregation of wind farm strings with heterogeneous parameters. <i>IET Energy Systems Integration</i> , 2021 , 3, 99-108	3.3 0
103	An Online Parameters Monitoring Method for Output Capacitor of Buck Converter Based on Large-Signal Load Transient Trajectory Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6 15
102	An Enhanced Generalized Average Modeling of Dual Active Bridge Converters 2020 ,	3
101	Single-Phase Bridgeless PFC Topology Derivation and Performance Benchmarking. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9238-9250	7.2 16
100	Optimization Design and Control of Single-Stage Single-Phase PV Inverters for MPPT Improvement. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13000-13016	7.2 24
99	Improved harmonic injection pulse-width modulation variable frequency triangular carrier scheme for multilevel inverters. <i>IET Power Electronics</i> , 2020 , 13, 3146-3154	2.2 2
98	Performance enhancement of photovoltaic system under grid voltage distortion utilising total least-square control scheme. <i>IET Power Electronics</i> , 2020 , 13, 3044-3055	2.2
97	Investigating the Effect of Different Parameters on Harmonics and EMI Emissions at the Frequency Range of 09 kHz 2020 ,	1
96	Effect of Unipolar and Bipolar SPWM on the Lifetime of DC-link Capacitors in Single-Phase Voltage Source Inverters 2020 ,	2
95	Assessment accuracy of power system frequency security with additional frequency controls in wind turbines. <i>IET Renewable Power Generation</i> , 2020 , 14, 3439-3447	2.9

94	Harmonics mitigation and non-ideal voltage compensation utilising active power filter based on predictive current control. <i>IET Power Electronics</i> , 2020 , 13, 2782-2793	2.2	7
93	Control of Grid-Following Inverters Under Unbalanced Grid Conditions. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 184-192	5.4	21
92	Common-Mode Current Prediction and Analysis in Motor Drive Systems for the New Frequency Range of 2–50 kHz. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	10
91	Modeling of Converter Synchronization Stability under Grid Faults: The General Case. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	10
90	Model Predictive Control of Grid Forming Converters with Enhanced Power Quality. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6390	2.6	2
89	Current Limiting Control With Enhanced Dynamics of Grid-Forming Converters During Fault Conditions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1062-1073	5.6	71
88	Current Reference Generation Based on Next-Generation Grid Code Requirements of Grid-Tied Converters During Asymmetrical Faults. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3784-3797	5.6	30
87	An Efficient Reduced-Order Model for Studying Synchronization Stability of Grid-Following Converters during Grid Faults 2019 ,		19
86	IEEE Access Special Section Editorial: Power Quality and Harmonics Issues of Future and Smart Grids. <i>IEEE Access</i> , 2019 , 7, 132803-132805	3.5	2
85	Performance Assessment of Grid Forming Converters Using Different Finite Control Set Model Predictive Control (FCS-MPC) Algorithms. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3513	2.6	7
84	Robust Fault Ride Through of Converter-Based Generation During Severe Faults With Phase Jumps. <i>IEEE Transactions on Industry Applications</i> , 2019 , 1-1	4.3	2
83	An Overview of Assessment Methods for Synchronization Stability of Grid-Connected Converters Under Severe Symmetrical Grid Faults. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9655-9670	7.2	109
82	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5055-5067	4.3	21
81	Decentralized Droop Control in DC Microgrids Based on a Frequency Injection Approach. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6782-6791	10.7	23
80	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4064-4078	7.2	64
79	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1243-1257	5.6	18
78	An Optimized Control Scheme to Reduce the Backflow Power and Peak Current in Dual Active Bridge Converters 2019 ,		7
77	System-Level Reliability-Oriented Power Sharing Strategy for DC Power Systems. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4865-4875	4.3	29

76	Passivity-Based Control Design Methodology for UPS Systems. <i>Energies</i> , 2019 , 12, 4301	3.1	11
75	Analytical Modeling of 9-150 kHz EMI in Single-Phase PFC Converter 2019 ,		2
74	Standard Test Systems for Modern Power System Analysis: An Overview. <i>IEEE Industrial Electronics Magazine</i> , 2019 , 13, 86-105	6.2	28
73	Systematic Approach for Transient Stability Evaluation of Grid-Tied Converters during Power System Faults 2019 ,		18
72	Enhanced Frequency Droop Method for load sharing in LVDC power systems 2018 ,		3
71	Load-independent harmonic mitigation in SCR-fed three-phase multiple adjustable speed drive systems with deliberately dispatched firing angles. <i>IET Power Electronics</i> , 2018 , 11, 727-734	2.2	7
70	System-level lifetime-oriented power sharing control of paralleled DC/DC converters 2018 ,		1
69	Lifetime benchmarking of two DC-link passive filtering configurations in adjustable speed drives 2018 ,		7
68	Distributed Primary and Secondary Power Sharing in a Droop-Controlled LVDC Microgrid With Merged AC and DC Characteristics. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2284-2294	10.7	51
67	Performance Evaluation of the Single-Phase Split-Source Inverter Using an Alternative DC/AC Configuration. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 363-373	8.9	43
66	Effects of Modulation Techniques on the Input Current Interharmonics of Adjustable Speed Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 167-178	8.9	25
65	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4045-4060	7.2	43
64	A Flexible Control Scheme for Single-Stage DAB AC/DC Converters 2018 ,		3
63	Improving Performance of Three-Phase Slim DC-Link Drives Utilizing Virtual Positive Impedance-Based Active Damping Control. <i>Electronics (Switzerland)</i> , 2018 , 7, 234	2.6	1
62	Efficiency Enhancement of Bridgeless Buck-Boost PFC Converter with Unity PF and DC Split to Reduce Voltage Stresses 2018 ,		5
61	Mission Profile Based Power Converter Reliability Analysis in a DC Power Electronic Based Power System 2018 ,		5
60	An Optimized Control Scheme for Reducing Conduction and Switching Losses in Dual Active Bridge Converters 2018 ,		4
59	Single-stage Bridgeless Buck-boost PFC Converter with DC Split for Low Power LED applications 2018 ,		2

58	A Review on Fault Current Limiting Devices to Enhance the Fault Ride-Through Capability of the Doubly-Fed Induction Generator Based Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2059	2.6	14
57	Grid Synchronization of Wind Turbines during Severe Symmetrical Faults with Phase Jumps 2018 ,		7
56	Analysis and Design of the Quasi-Z-Source Inverter for Wide Range of Operation 2018 ,		7
55	System-level reliability enhancement of DC/DC stage in a single-phase PV inverter. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1030-1035	1.2	10
54	Characterization of Proportional-Integral-Resonant Compensator for DC Link Voltage Control 2018 ,		2
53	The Impact of Topology and Mission Profile on the Reliability of Boost-type Converters in PV Applications 2018 ,		14
52	Active Rectifiers and Their Control 2018 , 3-52		1
51	Characterization of Input Current Interharmonics in Adjustable Speed Drives. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8632-8643	7.2	12
50	Harmonic Emissions of Three-Phase Diode Rectifiers in Distribution Networks. <i>IEEE Access</i> , 2017 , 5, 2819-2833	3.9	49
49	Energy Saving and Efficient Energy Use By Power Electronic Systems. <i>Lecture Notes in Energy</i> , 2017 , 1-14	0.4	5
48	Analysis of three-phase rectifier systems with controlled DC-link current under unbalanced grids 2017 ,		11
47	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4855-4862	4.3	27
46	Performance evaluation of electronic inductor based adjustable speed drives with respect to line current interharmonics 2017 ,		2
45	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5440-5450	4.3	11
44	Enhanced Phase-Shifted Current Control for Harmonic Cancellation in Three-Phase Multiple Adjustable Speed Drive Systems. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 996-1004	4.3	16
43	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
42	Synchronverter-Enabled DC Power Sharing Approach for LVDC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8089-8099	7.2	50
41	A novel passive islanding detection scheme for distributed generations based on rate of change of positive sequence component of voltage and current 2017 ,		5

40	2017,			9
39	Active DaMPing control methods for three-phase slim DC-link drive system 2017,			3
38	The impact of grid unbalances on the reliability of DC-link capacitors in a motor drive 2017,			10
37	Harmonic distortion performance of multi three-phase SCR-fed drive systems with controlled DC-link current under unbalanced grid 2017,			1
36	Capacitance estimation algorithm based on DC-link voltage harmonics using artificial neural network in three-phase motor drive systems 2017,			9
35	Dynamic and control analysis of modular multi-parallel rectifiers (MMR) 2017,			1
34	Investigation on capacitor switching transient limiter with a three phase variable resistance 2017,			1
33	An improved modulation strategy for the three-phase Z-source inverters (ZSIs) 2017,			7
32	A Multipulse Pattern Modulation Scheme for Harmonic Mitigation in Three-Phase Multimotor Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016, 4, 174-185	5.6		32
31	A DC-Link Modulation Scheme With Phase-Shifted Current Control for Harmonic Cancellations in Multidrive Applications. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 1837-1840	7.2		18
30	Family of step-up DC/DC converters with fast dynamic response for low power applications. <i>IET Power Electronics</i> , 2016, 9, 2665-2673	2.2		19
29	Smart power management of DC microgrids in future milligrids 2016,			5
28	. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 3182-3192	4.3		27
27	A review of electronic inductor technique for power factor correction in three-phase adjustable speed drives 2016,			6
26	Analysis of harmonics suppression by active damping control on multi slim dc-link drives 2016,			5
25	Addressing the unbalance loading issue in multi-drive systems with a DC-link modulation scheme for harmonic reduction 2016,			2
24	Predictive Pulse-Pattern Current Modulation Scheme for Harmonic Reduction in Three-Phase Multidrive Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 5932-5942	8.9		16
23	A robust adaptive load frequency control for micro-grids. <i>ISA Transactions</i> , 2016, 65, 220-229	5.5		97

22	Investigating Pulsed Discharge Polarity Employing Solid-state Pulsed Power Electronics. <i>Electric Power Components and Systems</i> , 2015 , 43, 2214-2222	1	
21	A smart current modulation scheme for harmonic reduction in three-phase motor drive applications 2015 ,		2
20	Performance evaluation of non-thermal plasma on particulate matter, ozone and CO2 correlation for diesel exhaust emission reduction. <i>Chemical Engineering Journal</i> , 2015 , 276, 240-248	14.7	38
19	A novel harmonic elimination approach in three-phase multi-motor drives 2015 ,		4
18	Pulse pattern modulated strategy for harmonic current components reduction in three-phase AC-DC converters 2015 ,		3
17	Controlling current and voltage type interfaces in power-hardware-in-the-loop simulations. <i>IET Power Electronics</i> , 2014 , 7, 2618-2627	2.2	14
16	Power converters design and analysis for high power piezoelectric ultrasonic transducers 2014 ,		4
15	Sterilizing tissue-materials using pulsed power plasma. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 953-64	4.5	4
14	Effect of Pulsed Power on Particle Matter in Diesel Engine Exhaust Using a DBD Plasma Reactor. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 2349-2358	1.3	34
13	Analysing DBD plasma lamp intensity versus power consumption using a push-pull pulsed power supply 2013 ,		6
12	Power electronic converters for high power ultrasound transducers 2012 ,		2
11	Improving the efficiency of high power piezoelectric transducers for industrial applications. <i>IET Science, Measurement and Technology</i> , 2012 , 6, 213	1.5	9
10	A flexible solid-state pulsed power topology 2012 ,		3
9	Parallel and series configurations of flyback converter for pulsed power applications 2012 ,		3
8	High-Voltage Modular Power Supply Using Parallel and Series Configurations of Flyback Converter for Pulsed Power Applications. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 2578-2587	1.3	28
7	Designing a new robust on-line secondary path modeling technique for feedforward active noise control systems. <i>Signal Processing</i> , 2009 , 89, 1195-1204	4.4	29
6	An efficient online secondary path estimation for feedback active noise control systems 2009 , 19, 241-249		19
5	A self-tuning feedforward active noise control system. <i>IEICE Electronics Express</i> , 2009 , 6, 230-236	0.5	5

4	A variable step-size FxLMS algorithm for feedforward active noise control systems based on a new online secondary path modelling technique 2008 ,	10
3	A new online secondary path modelling method for feedforward active noise control systems 2008 ,	5
2	Benefiting White Noise in Developing Feedforward Active Noise Control Systems. <i>Communications in Computer and Information Science</i> , 2008 , 332-339	0.3 1
1	A New Feedback ANC System Approach. <i>Communications in Computer and Information Science</i> , 2008 , 324-331	0.3 2