

Shahrokh Farhangi

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.

74 papers	1,593 citations	21 h-index	37 g-index
84 ext. papers	2,090 ext. citations	4.4 avg, IF	5.19 L-index

#	Paper	IF	Citations
74	Stochastic power management strategy for optimal day-ahead scheduling of wind-HESS considering wind power generation and market price uncertainties. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 107429	5.1	3
73	An Improved and Fast MPPT Algorithm for PV Systems under Partially Shaded Conditions. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 1-1	8.2	4
72	Optimal Photovoltaic Multi-String Inverter Topology Selection Based on Reliability and Cost Analysis. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1186-1195	8.2	3
71	Fault-Tolerant Method to Reduce Voltage Stress of Submodules in Postfault Condition for Regenerative MMC-Based Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4718-4726	8.9	6
70	Optimal sizing and technology selection of hybrid energy storage system with novel dispatching power for wind power integration. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 127, 106660	5.1	13
69	Fast Artificial Neural Network based Method for Estimation of the Global Maximum Power Point in Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
68	Utilization of Soft-Switched Boost Converter for MPPT Application in Photovoltaic Single-Phase Grid-Connected Inverter 2020 ,		4
67	Modeling and estimation of the maximum power of solar arrays under partial shading conditions 2020 ,		1
66	Detection and Localization of Open-Circuit Fault in Modular Multilevel Converter 2020 ,		3
65	A Modified Discontinuous PWM to Reduce Common Mode Voltage and Switching Loss for Photovoltaic Transformerless T-Type Inverter 2020 ,		4
64	Three-Phase Filter-Clamped Transformerless Inverter for Grid-Connected Photovoltaic Systems with Low Leakage Current. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	7
63	Filter-Clamped Two-Level Three-Phase Transformerless Grid-Connected Photovoltaic Inverter for Leakage Current Reduction 2020 ,		5
62	Neural Network based Maximum Power Point Tracking Technique for PV Arrays in Mobile Applications 2019 ,		3
61	An Isolated Bidirectional Single-Stage Inverter Without Electrolytic Capacitor for Energy Storage Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2070-2080	5.6	7
60	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2756-2765	8.9	52
59	Analysis, Design, and Implementation of DC/DC IBBC-DAHB Converter With Voltage Matching to Improve Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5209-5219	8.9	9
58	A Reliable Three-Phase Single-Stage Multiport Inverter for Grid-Connected Photovoltaic Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2384-2393	5.6	7

57	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1213-1223	8.9	57
56	A Gate Driver Circuit for Series-Connected IGBTs Based on Quasi-Active Gate Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 791-799	5.6	14
55	Reactive power sharing improvement of droop-controlled DFIG wind turbines in a microgrid. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 842-849	2.5	15
54	A New Interleaved Coupled-Inductor Nonisolated Soft-Switching Bidirectional DCDC Converter With High Voltage Gain Ratio. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5529-5538	8.9	61
53	A new strategy for load side harmonic reduction using grid-connected photovoltaic inverters 2018 ,		2
52	Selective Harmonic Elimination Technique With Control of Capacitive DC-Link Voltages in an Asymmetric Cascaded H-Bridge Inverter for STATCOM Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8788-8796	8.9	40
51	H8 Inverter to Reduce Leakage Current in Transformerless Three-Phase Grid-Connected Photovoltaic systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 910-918	5.6	62
50	Remanent Flux Negative Effects on Transformer Diagnostic Test Results and a Novel Approach for Its Elimination. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2938-2945	4.3	5
49	A Control Approach for a Small-Scale PMSG-Based WECS in the Whole Wind Speed Range. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 9117-9130	7.2	21
48	ZCS-PWM interleaved boost converter using resonance-clamp auxiliary circuit. <i>IET Power Electronics</i> , 2017 , 10, 405-412	2.2	8
47	Reduction of capacitor voltage ripple in a modular multilevel converter employed in adjustable speed drive application 2017 ,		2
46	A new control method for improving the performance of Modular multilevel converter 2017 ,		2
45	A review on current reference calculation of three-phase grid-connected PV converters under grid faults 2017 ,		10
44	An improved D-SSSC voltage and current load balancing control strategy under unbalanced load 2017 ,		1
43	Control Strategy for Three-Phase Grid-Connected PV Inverters Enabling Current Limitation Under Unbalanced Faults. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8908-8918	8.9	124
42	Quantification of Shading Tolerability for Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1390-1399	3.7	19
41	Global Maximum Power Point Tracking Method for Photovoltaic Arrays Under Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2855-2864	8.9	70
40	A Method to Control the Interphase Power Controller with Common DC Bus. <i>Electric Power Components and Systems</i> , 2017 , 45, 1996-2006	1	3

39	A low-voltage ride-through control strategy for three-phase grid-connected PV systems 2017 ,		10
38	Improved fault ride through strategy for doubly fed induction generator based wind turbines under both symmetrical and asymmetrical grid faults. <i>IET Renewable Power Generation</i> , 2016 , 10, 1114-1122	2.9	40
37	Improvement of the modulation method for single-phase transformerless photovoltaic conergy inverter for reactive power injection capability 2016 ,		8
36	Modulation technique for Four-Leg Voltage Source Inverter without a Look-Up Table. <i>IET Power Electronics</i> , 2016 , 9, 648-656	2.2	14
35	Optimal Selective Harmonic Mitigation Technique on Variable DC Link Cascaded H-Bridge Converter to Meet Power Quality Standards. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1107-1116	5.6	52
34	Overall power control strategy for small-scale WECS incorporating flux weakening operation. <i>IET Renewable Power Generation</i> , 2016 , 10, 1264-1277	2.9	9
33	A noninvasive on-line failure prediction technique for aluminum electrolytic capacitors in photovoltaic grid-connected inverters 2016 ,		4
32	Increasing the number of voltage levels in single-phase multilevel converters 2015 ,		3
31	Improved Phasor Estimation Method for Dynamic Voltage Restorer Applications. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1467-1477	4.3	31
30	Optimal placement of additional switch in the photovoltaic single-phase grid-connected transformerless full bridge inverter for reducing common mode leakage current 2015 ,		17
29	Open-circuit fault detection and localization in Modular Multilevel Converter 2015 ,		4
28	Analysis and modification of the single phase transformerless FB-DCB inverter modulation for injecting reactive power 2015 ,		15
27	Analysis of Overcurrent Occurrence in Photovoltaic Modules With Overlapped By-Pass Diodes at Partial Shading. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 713-721	3.7	19
26	Modification to Wiring and Protection Standards of Photovoltaic Systems. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 1603-1609	3.7	11
25	Improvement of Dynamic Behavior of Shunt Active Power Filter Using Fuzzy Instantaneous Power Theory. <i>Journal of Power Electronics</i> , 2014 , 14, 1303-1313	0.9	20
24	Modified space vector modulation for fault-tolerant operation of multilevel cascaded H-bridge inverters. <i>IET Power Electronics</i> , 2013 , 6, 742-751	2.2	77
23	An LCL-based interface connecting photovoltaic back-up inverter to load and grid 2013 ,		7
22	. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 903-910	4.3	36

21	A minimum loss switching method using space vector modulation for cascaded H-bridge multilevel inverter 2012 ,		17
20	Comparison of power fluctuation between Optislip and DFIG controlled wind turbines 2012 ,		2
19	A new converter fault discrimination method for a 12-pulse high-voltage direct current system based on wavelet transform and Hidden Markov Models. <i>Simulation</i> , 2012 , 88, 668-679	1.2	0
18	A Novel DC Bus Voltage Balancing of Cascaded H-Bridge Converters in D-SSSC Application. <i>Journal of Power Electronics</i> , 2012 , 12, 567-577	0.9	6
17	Grid-Connected Photovoltaic System Based on a Cascaded H-Bridge Inverter. <i>Journal of Power Electronics</i> , 2012 , 12, 578-586	0.9	22
16	Comparison of three isolated bi-directional DC/DC converter topologies for a backup photovoltaic application 2011 ,		17
15	A Fast and Effective Control Scheme for the Dynamic Voltage Restorer. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 2398-2406	4.3	92
14	Enhancing the reliability of single-phase CHB-based grid-connected photovoltaic energy systems 2011 ,		14
13	Flying Capacitor DTC Drive with Reductions in Common Mode Voltage and Stator Overvoltage. <i>Journal of Power Electronics</i> , 2011 , 11, 512-519	0.9	2
12	An improved predictive current control method for grid-connected inverters 2010 ,		6
11	Extending the operating range of cascaded H-bridge based multilevel rectifier under unbalanced load conditions 2010 ,		10
10	A Fault-Tolerant Control Strategy for Cascaded H-Bridge Multilevel Rectifiers. <i>Journal of Power Electronics</i> , 2010 , 10, 34-42	0.9	23
9	A Novel Pulse-Width and Amplitude Modulation (PWAM) Control Strategy for Power Converters. <i>Journal of Power Electronics</i> , 2010 , 10, 374-381	0.9	11
8	Innovative Decision Reference Based Algorithm for Photovoltaic Maximum Power Point Tracking. <i>Journal of Power Electronics</i> , 2010 , 10, 528-537	0.9	6
7	A fast maximum power point tracking technique for PV powered systems 2009 ,		2
6	An Accurate Hysteresis Model for Ferroresonance Analysis of a Transformer. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 1448-1456	4.3	45
5	. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2428-2442	7.2	123
4	An Accurate Current Transformer Model Based on Preisach Theory for the Analysis of Electromagnetic Transients. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 233-242	4.3	31

3	Analysis of Ferroresonance Modes in Power Transformers Using Preisach-Type Hysteretic Magnetizing Inductance. <i>IEEE Transactions on Power Delivery</i> , 2007 , 22, 919-929	4.3	51
2	Voltage balancing technique with low switching frequency for cascade multilevel active front-end 2007 ,		7
1	A Fuzzy Logic Direct Yaw-Moment Control System for All-Wheel-Drive Electric Vehicles. <i>Vehicle System Dynamics</i> , 2004 , 41, 203-221	2.8	76