

Weidong Xiao

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136
papers

4,500
citations

37
h-index

64
g-index

154
ext. papers

5,706
ext. citations

5.8
avg, IF

6.14
L-index

#	Paper	IF	Citations
136	Topology Study of Photovoltaic Interface for Maximum Power Point Tracking. <i>IEEE Industrial Electronics Magazine</i> , 2007 , 54, 1696-1704	6.2	347
135	Regulation of Photovoltaic Voltage. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 1365-1374	8.9	219
134	Real-Time Identification of Optimal Operating Points in Photovoltaic Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 1017-1026	8.9	185
133	A Parameterization Approach for Enhancing PV Model Accuracy. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5708-5716	8.9	155
132	A Simple Approach to Modeling and Simulation of Photovoltaic Modules. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 185-186	8.2	146
131	Reliability assessment of photovoltaic power systems: Review of current status and future perspectives. <i>Applied Energy</i> , 2013 , 104, 822-833	10.7	145
130	Determining Optimal Location and Size of Distributed Generation Resources Considering Harmonic and Protection Coordination Limits. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1245-1254	7	131
129	Analysis and Evaluation of DC-Link Capacitors for High-Power-Density Electric Vehicle Drive Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2950-2964	6.8	130
128	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1096-1106	10.7	121
127	A modified adaptive hill climbing MPPT method for photovoltaic power systems		113
126	Two Degrees of Freedom Active Damping Technique for $\$LCL\$$ Filter-Based Grid Connected PV Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 2795-2803	8.9	112
125	Communication systems for grid integration of renewable energy resources. <i>IEEE Network</i> , 2011 , 25, 22-29	11.4	112
124	Efficient Approaches for Modeling and Simulating Photovoltaic Power Systems. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 500-508	3.7	111
123	Application of Centered Differentiation and Steepest Descent to Maximum Power Point Tracking. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2539-2549	8.9	111
122	Nonactive Power Loss Minimization in a Bidirectional Isolated DCDC Converter for Distributed Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6822-6831	8.9	107
121	Reliability Evaluation of Grid-Connected Photovoltaic Power Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 379-389	8.2	104
120	Subsynchronous Resonance Mitigation for Series-Compensated DFIG-Based Wind Farm by Using Two-Degree-of-Freedom Control Strategy. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1442-1454	7	102

119	Fault ride through capability for grid interfacing large scale PV power plants. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 1027-1036	2.5	93
118	Three-Port DCDC Converter for Stand-Alone Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3068-3076	7.2	91
117	Dynamic Modeling and Control of Interleaved Flyback Module-Integrated Converter for PV Power Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1377-1388	8.9	89
116	Online Overvoltage Prevention Control of Photovoltaic Generators in Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 2071-2078	10.7	72
115	A novel modeling method for photovoltaic cells		66
114	An Improved MPPT Method for PV System With Fast-Converging Speed and Zero Oscillation. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5051-5064	4.3	63
113	Modified Beta Algorithm for GMPPT and Partial Shading Detection in Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2172-2186	7.2	56
112	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 3202-3212	8.9	55
111	Review of grid-tied converter topologies used in photovoltaic systems. <i>IET Renewable Power Generation</i> , 2016 , 10, 1543-1551	2.9	53
110	A Novel Transient Control Strategy for VSC-HVDC Connecting Offshore Wind Power Plant. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1056-1069	8.2	53
109	Overview of maximum power point tracking technologies for photovoltaic power systems 2011 ,		50
108	2017 ,		46
107	Single-Switch High Step-Up DCDC Converter With Low and Steady Switch Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9326-9338	8.9	45
106	Forecasting-Based Power Ramp-Rate Control Strategies for Utility-Scale PV Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1862-1871	8.9	44
105	Gallium-Nitride-Based Submodule Integrated Converters for High-Efficiency Distributed Maximum Power Point Tracking PV Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 966-975	8.9	43
104	An Efficient Modeling Technique to Simulate and Control Submodule-Integrated PV System for Single-Phase Grid Connection. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 96-107	8.2	42
103	Design and performance evaluation of a bidirectional isolated dc/dc converter with extended dual-phase-shift scheme. <i>IET Power Electronics</i> , 2013 , 6, 914-924	2.2	39
102	Comprehensive Studies on Operational Principles for Maximum Power Point Tracking in Photovoltaic Systems. <i>IEEE Access</i> , 2019 , 7, 121407-121420	3.5	38

101	Three-phase interleaved high-step-up converter with coupled-inductor-based voltage quadrupler. <i>IET Power Electronics</i> , 2014 , 7, 1841-1849	2.2	37
100	A Novel Sensorless Photovoltaic Power Reserve Control With Simple Real-Time MPP Estimation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7521-7531	7.2	37
99	DC-link voltage control strategy for reducing capacitance and total harmonic distortion in single-phase grid-connected photovoltaic inverters. <i>IET Power Electronics</i> , 2015 , 8, 1386-1393	2.2	36
98	Advanced Fault Ride-Through Management Scheme for VSC-HVDC Connecting Offshore Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4923-4934	7	34
97	Novel Fault Ride-Through Configuration and Transient Management Scheme for Doubly Fed Induction Generator. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 86-94	5.4	34
96	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1549-1560	8.9	33
95	New Modular Structure DCDC Converter Without Electrolytic Capacitors for Renewable Energy Applications. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1184-1192	8.2	32
94	Optimal penetration levels for inverter-based distributed generation considering harmonic limits. <i>Electric Power Systems Research</i> , 2013 , 97, 68-75	3.5	32
93	Designing Localized MPPT for PV Systems Using Fuzzy-Weighted Extreme Learning Machine. <i>Energies</i> , 2018 , 11, 2615	3.1	30
92	Closed-Form Solution of Time-Varying Model and Its Applications for Output Current Harmonics in Two-Stage PV Inverter. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 142-150	8.2	28
91	Review and qualitative analysis of submodule-level distributed power electronic solutions in PV power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 76, 516-528	16.2	26
90	2012 ,		26
89	A novel global maximum power point tracking algorithm for photovoltaic system with variable perturbation frequency and zero oscillation. <i>Solar Energy</i> , 2019 , 181, 345-356	6.8	25
88	Statistic and Parallel Testing Procedure for Evaluating Maximum Power Point Tracking Algorithms of Photovoltaic Power Systems. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 1062-1069	3.7	25
87	Online Supervisory Voltage Control for Grid Interface of Utility-Level PV Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 843-853	8.2	23
86	A comprehensive review of topologies for photovoltaic I_V curve tracer. <i>Solar Energy</i> , 2020 , 196, 346-357	6.8	23
85	Novel Configuration and Transient Management Control Strategy for VSC-HVDC. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2478-2488	7	22
84	A New PV System Configuration Based on Submodule Integrated Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3278-3284	7.2	20

83	Novel Piecewise Linear Formation of Droop Strategy for DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6747-6755	10.7	19
82	Improved Sample Value Adjustment for Synchrophasor Estimation at Off-Nominal Power System Conditions. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 33-44	4.3	19
81	Nested Formation Approach for Networked Microgrid Self-Healing in Islanded Mode. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 452-464	4.3	19
80	Evaluation of Shunt Model for Simulating Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1818-1823	3.7	19
79	Fault Ride-Through Configuration and Transient Management Scheme for Self-Excited Induction Generator-Based Wind Turbine. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 148-159	8.2	18
78	. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	18
77	A High Conversion Ratio and High-Efficiency Bidirectional DCDC Converter With Reduced Voltage Stress. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11827-11842	7.2	15
76	A Direct Phase-coordinates Approach to Fault Ride Through of Unbalanced Faults in Large-scale Photovoltaic Power Systems. <i>Electric Power Components and Systems</i> , 2015 , 43, 902-913	1	14
75	Dispatching and Frequency Control Strategies for Marine Current Turbines Based on Doubly Fed Induction Generator. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 262-270	8.2	14
74	Integration of Start/Stop Mechanism to Improve Maximum Power Point Tracking Performance in Steady State. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6126-6135	8.9	14
73	Design and optimization of laminated busbar to reduce transient voltage spike 2012 ,		13
72	Optimal fault current limiter sizing for distribution systems with DG 2011 ,		13
71	Adaptive Droop Control of Multi-Terminal HVDC Network for Frequency Regulation and Power Sharing. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 566-578	7	13
70	Perturbation optimization of maximum power point tracking of photovoltaic power systems based on practical solar irradiance data 2015 ,		12
69	Current-Fed High-Frequency AC Distributed Power System for Medium-High-Voltage Gate Driving Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 3736-3751	8.9	12
68	Estimating power losses in Dual Active Bridge DC-DC converter 2011 ,		12
67	mixed-sensitivity robust control design for damping low-frequency oscillations with DFIG wind power generation. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 4274-4286	2.5	12
66	Reconfigurable Nonisolated DCDC Converter With Fault-Tolerant Capability. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8934-8943	7.2	11

65	Adaptive control of grid connected photovoltaic inverter for maximum VA utilization 2013 ,		11
64	Novel Power Smoothing and Generation Scheduling Strategies for a Hybrid Wind and Marine Current Turbine System. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	11
63	Passive harmonic filter planning to overcome power quality issues in radial distribution systems 2012 ,		10
62	Comparative evaluation of DC-link capacitors for electric vehicle application 2012 ,		10
61	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7226-7227	8.9	9
60	Photovoltaic Voltage Regulation by Affine Parameterization. <i>International Journal of Green Energy</i> , 2013 , 10, 302-320	3	9
59	Design, analysis and experimental verification of a high voltage gain and high-efficiency DCDC converter for photovoltaic applications. <i>IET Renewable Power Generation</i> , 2020 , 14, 1699-1709	2.9	9
58	Single-Phase LED Driver With Reduced Power Processing and Power Decoupling. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4540-4548	7.2	9
57	An improved Extremum-Seeking based MPPT for grid-connected PV systems with partial shading 2014 ,		8
56	Single phase NTD PLL for fast dynamic response and operational robustness under abnormal grid condition. <i>Electric Power Systems Research</i> , 2020 , 180, 106156	3.5	8
55	Analysis and experimental verification of a single-switch high-voltage gain ZCS DCDC converter. <i>IET Power Electronics</i> , 2019 , 12, 2146-2153	2.2	6
54	Allowable DG penetration level considering harmonic distortions 2011 ,		6
53	Development of Frequency-Fixed All-Pass Filter based Single-Phase Phase-Locked Loop. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	6
52	Realisation of RPS from electrical home appliances in a smart home energy management system. <i>IET Smart Grid</i> , 2020 , 3, 11-21	2.7	5
51	A cost-effective power ramp rate control strategy based on flexible power point tracking for photovoltaic system. <i>Solar Energy</i> , 2020 , 208, 1058-1067	6.8	5
50	Dual-loop control of transfer delay based PLL for fast dynamics in single-phase AC power systems. <i>IET Power Electronics</i> , 2019 , 12, 3571-3581	2.2	5
49	A Modulation Method for Capacitance Reduction in Active-Clamp Flyback-Based ACDC Adapters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	5
48	A modified MPPT technique based on the MPP-locus method for photovoltaic system 2017 ,		4

47	Review of current sensorless maximum power point tracking technologies for photovoltaic power systems 2013 ,		4
46	Modeling and control of DAB applied in a PV based DC microgrid 2012 ,		4
45	Localization in wireless sensor networks by constrained simultaneous perturbation stochastic approximation technique 2012 ,		4
44	Modeling of a constant Voltage transformer. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 409-418		4
43	High frequency inverter topologies integrated with the coupled inductor bridge arm. <i>IET Power Electronics</i> , 2016 , 9, 1144-1152	2.2	4
42	Enhanced soft-switching strategy for flyback-based microinverter in PV power systems. <i>IET Renewable Power Generation</i> , 2019 , 13, 2830-2839	2.9	4
41	Generator-based threshold for transient stability assessment. <i>IET Smart Grid</i> , 2019 , 2, 407-419	2.7	4
40	Modeling and Affine Parameterization for Dual Active Bridge DC-DC Converters. <i>Electric Power Components and Systems</i> , 2015 , 43, 665-673	1	3
39	A practical load sharing control strategy for DC microgrids and DC supplied houses 2013 ,		3
38	Review and simulation of flyback topology for module level parallel inverters in PV power systems 2017 ,		3
37	Enhanced Single-phase Phase Locked Loop based on Complex-Coefficient Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	3
36	A Graph Neural Network based Deep Learning Predictor for Spatio-Temporal Group Solar Irradiance Forecasting. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	3
35	An Enhanced Time Delay Based Reference Current Identification Method for Single Phase System. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	3
34	Analysis, Design, and Experimental Verification of High Step-up DC-DC Converter to Interface Renewable Energy Sources into DC Nanogrid 2019 ,		2
33	Advanced Modulation Scheme of Dual Active Bridge for High Conversion Efficiency 2019 ,		2
32	Bridging the transition to DC distribution: A hybrid microgrid for residential apartments 2017 ,		2
31	Fast identification of active and reactive current component for single phase grid interconnection 2017 ,		2
30	Affine parameterization and anti-windup approaches for controlling DC-DC converters 2012 ,		2

29	Fuzzy logic auto-tuning applied on DC-DC converter		2
28	Evaluating maximum power point tracking performance by using artificial lights		2
27	Enhanced battery controller for inertia support in residential microgrid based on active disturbance rejection control. <i>Electric Power Systems Research</i> , 2020 , 189, 106646	3.5	2
26	A fast and accurate approach for power losses quantification of photovoltaic power systems under partial-shading conditions. <i>IET Renewable Power Generation</i> , 2021 , 15, 939-951	2.9	2
25	Feasibility Study on Using Electrical Home Appliances for Distributed Reactive Power Support 2018 ,		2
24	Optimal Analysis and Design of DC-DC Converter to Achieve High Voltage Conversion Gain and High Efficiency for Renewable Energy Systems 2018 ,		2
23	Maximum Power Point Tracking 2017 , 249-284		1
22	Advanced Control Scheme for DC Microgrid via Dual Active Bridge and Bus Signaling 2019 ,		1
21	Improved deterministic real-time estimation of Maximum Power Point in photovoltaic power systems 2015 ,		1
20	SPSA-NC: simultaneous perturbation stochastic approximation localization based on neighbor confidence. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 1570-1587	1.9	1
19	Comprehensive harmonic current control in an islanded microgrid 2017 ,		1
18	Control approach to achieve burst mode operation with DC-link voltage protection in single-phase two-stage PV inverters 2014 ,		1
17	A High Gain Flyback DC-DC Converter for PV Applications 2020 ,		1
16	LED driver based on novel ripple cancellation technique for flicker-free operation and reduced power processing. <i>IET Power Electronics</i> , 2020 , 13, 3026-3031	2.2	1
15	Localization in Wireless Sensor Networks by Cross Entropy Method. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013 , 103-118	0.2	1
14	Fast Simulation Technique for Photovoltaic Power Systems using Simulink 2019 ,		1
13	A Comprehensive Study of Orthogonal Signal Generation Schemes for Single Phase Systems 2021 ,		1
12	A Novel Power Incremental GMPPT Method based on Modified Voltage Lines for Photovoltaic System 2018 ,		1

11	Self-Tuning MPPT Scheme Based on Reinforcement Learning and Beta Parameter in Photovoltaic Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13826-13838	7.2	1
10	System Design and Integration of Grid-connected Systems 2017 , 333-366		0
9	Classification of Photovoltaic Power Systems 2017 , 25-47		0
8	Constrained Cross Entropy Localization Technique for Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 267369	1.7	0
7	Reference-Voltage-Line-Aided Power Incremental Algorithm for Photovoltaic GMPPT and Partial Shading Detection. <i>IEEE Transactions on Sustainable Energy</i> , 2022 , 1-1	8.2	0
6	Safety Standards, Guidance and Regulation 2017 , 49-64		
5	PV Output Characteristics and Mathematical Models 2017 , 65-101		
4	Power Conditioning 2017 , 103-171		
3	Dynamic Modeling 2017 , 173-197		
2	Voltage Regulation 2017 , 199-247		
1	Battery Storage and Standalone System Design 2017 , 285-332		