

# Huiqing Wen

## 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.

227  
papers

4,184  
citations

35  
h-index

55  
g-index

281  
ext. papers

5,746  
ext. citations

5.6  
avg. IF

6.32  
L-index

#	Paper	IF	Citations
227	A Monolithically Integrated 2-Transistor Voltage Reference with a Wide Temperature Range Based on AlGaIn/GaN Technology. <i>IEEE Electron Device Letters</i> , <b>2022</b> , 1-1	4.4	3
226	Enhanced Single-phase Phase Locked Loop based on Complex-Coefficient Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	3
225	Power-Rating Balance Control and Reliability Enhancement in Mismatched Photovoltaic Differential Power Processing Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 879-895	7.2	0
224	Low Complexity Finite-Control-Set MPC Based on Discrete Space Vector Modulation for T-Type Three-Phase Three-Level Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 392-403	7.2	8
223	Feature Engineering and Artificial Intelligence-Supported Approaches Used for Electric Powertrain Fault Diagnosis: A Review. <i>IEEE Access</i> , <b>2022</b> , 10, 29069-29088	3.5	1
222	A Modulation Method for Capacitance Reduction in Active-Clamp Flyback-Based ACDC Adapters. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	5
221	Reference-Voltage-Line-Aided Power Incremental Algorithm for Photovoltaic GMPPT and Partial Shading Detection. <i>IEEE Transactions on Sustainable Energy</i> , <b>2022</b> , 1-1	8.2	0
220	Review of Pulse Test Setup for the Switching Characterization of GaN Power Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-11	2.9	1
219	Monolithic Si-Based AlGaIn/GaN MIS-HEMTs Comparator and Its High Temperature Characteristics. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 12057	2.6	
218	A Comparative Review of High-Frequency Transient DC Bias Current Mitigation Strategies in Dual-Active-Bridge DC-DC Converters Under Phase-Shift Modulations. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	4
217	A Graph Neural Network based Deep Learning Predictor for Spatio-Temporal Group Solar Irradiance Forecasting. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	3
216	Computationally Efficient Model Predictive Control with Fixed Switching Frequency of Five-Level ANPC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
215	Optimal Design Strategy of a Solar Reflector Combining Photovoltaic Panels to Improve Electricity Output: A Case Study in Calgary, Canada. <i>Sustainability</i> , <b>2021</b> , 13, 6115	3.6	0
214	Monolithic Comparator and Sawtooth Generator of AlGaIn/GaN MIS-HEMTs With Threshold Voltage Modulation for High-Temperature Applications. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 2673-2679	7.9	7
213	Self-Calibration of Phase Current Sensors With Sampling Errors by Multipoint Sampling of Current Values in a Single PWM Cycle. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2942-2951	8.9	6
212	Adaptive Droop Control of Multi-Terminal HVDC Network for Frequency Regulation and Power Sharing. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 566-578	7	13
211	Hybrid DC-Bus Capacitor Discharge Strategy Using Internal Windings and External Bleeder for Surface-Mounted PMSM-Based EV Powertrains in Emergency. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1905-1915	8.9	8

210	Single-Phase LED Driver With Reduced Power Processing and Power Decoupling. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4540-4548	7.2	9
209	Model Predictive Control With Autotuning Weighting Factors for Single-Phase Six-Level Hybrid-Clamped Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 7946-7956	8.9	0
208	Winding-Based DC-Bus Capacitor Discharge Technique Selection Principles Based on Parametric Analysis for EV-PMSM Drives in Post-Crash Conditions. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 3551-3562	7.2	7
207	Minimum-Current-Stress Boundary Control Using Multiple-Phase-Shift-Based Switching Surfaces. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8718-8729	8.9	2
206	A Comparative Study on Photovoltaic MPPT Algorithms Under EN50530 Dynamic Test Procedure. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4153-4168	7.2	26
205	Universal Transient DC-Bias Current Suppression Strategy in Dual-Active-Bridge Converters for Energy Storage Systems. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 509-526	7.6	3
204	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> , <b>2021</b> , 1-1	5.6	6
203	An Efficient Model Predictive Control Using Virtual Voltage Vectors for Three-phase Three-level Converters with Constant Switching Frequency. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	6
202	High-Performance Photovoltaic Constant Power Generation Control With Rapid Maximum Power Point Estimation. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 714-729	4.3	5
201	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> , <b>2021</b> , 1-1	2.6	3
200	A Comprehensive Study of Orthogonal Signal Generation Schemes for Single Phase Systems <b>2021</b> ,		1
199	A fast and accurate approach for power losses quantification of photovoltaic power systems under partial-shading conditions. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 939-951	2.9	2
198	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 1397-1406	11.9	25
197	Fault Diagnosis and Tolerant Control of Dual-Active-Bridge Converter With Triple-Phase Shift Control for Bidirectional EV Charging Systems. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 287-303	7.6	10
196	Nonisolated switching-capacitor-integrated three- port converters with seamless PWM/PFM modulation. <i>Solar Energy</i> , <b>2021</b> , 224, 160-174	6.8	1
195	Model Predictive Current Control With Low Complexity for Single-Phase Four-Level Hybrid-Clamped Converters. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 983-999	7.6	5
194	Low ON-State Resistance Normally-OFF AlGaN/GaN MIS-HEMTs With Partially Recessed Gate and ZrOx Charge Trapping Layer. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4310-4316	2.9	3
193	Cost-effective and extensible LLC-resonant voltage-multiplier-based differential power processing optimizer for mismatched photovoltaic systems. <i>Solar Energy</i> , <b>2021</b> , 225, 501-516	6.8	1

192	Coordinated Frequency Regulation Using Solar Forecasting Based Virtual Inertia Control for Islanded Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 2393-2403	8.2	2
191	Minimum-Current-Stress Scheme of Three-Level Dual-Active-Bridge DCDC Converters With the Particle Swarm Optimization. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 2067-2084	7.6	3
190	Self-Tuning MPPT Scheme Based on Reinforcement Learning and Beta Parameter in Photovoltaic Power Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13826-13838	7.2	1
189	A Comprehensive Review of Fault Diagnosis and Tolerant Control in DC-DC Converters for DC Microgrids. <i>IEEE Access</i> , <b>2021</b> , 9, 80100-80127	3.5	9
188	A new optimized control system architecture for solar photovoltaic energy storage application. <i>IEICE Electronics Express</i> , <b>2021</b> , 18, 20200404-20200404	0.5	1
187	Multiple-Fault-Tolerant Dual Active Bridge Converter for DC Distribution System. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	5
186	Computation-Efficient Model Predictive Control With Common-Mode Voltage Elimination for Five-Level ANPC Converters. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 970-984	7.6	15
185	Effect of High-k Passivation Layer on High Voltage Properties of GaN Metal-Insulator-Semiconductor Devices. <i>IEEE Access</i> , <b>2020</b> , 8, 95642-95649	3.5	5
184	Synthetic Internal Voltage Phase Amplitude Dynamics Investigation for Electric Drivetrain Small-Signal Model in Electromechanical Control Timescale for a Wound Rotor Induction Machine-Based Shipboard Power System. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 844-855	7.6	8
183	Realisation of RPS from electrical home appliances in a smart home energy management system. <i>IET Smart Grid</i> , <b>2020</b> , 3, 11-21	2.7	5
182	Low-Complexity Power Balancing Point-Based Optimization for Photovoltaic Differential Power Processing. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 10306-10322	7.2	13
181	Multiobjective Finite Control Set Model Predictive Control Using Novel Delay Compensation Technique for PMSM. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 11193-11204	7.2	23
180	Reconfigurable Nonisolated DCDC Converter With Fault-Tolerant Capability. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8934-8943	7.2	11
179	Multiple-Voltage-Vector Model Predictive Control With Reduced Complexity for Multilevel Inverters. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 105-117	7.6	20
178	Robust LMI-LQR Control for Dual-Active-Bridge DCDC Converters With High Parameter Uncertainties. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 131-145	7.6	12
177	Deadband Effect and Accurate ZVS Boundaries of GaN-Based Dual-Active-Bridge Converters With Multiple-Phase-Shift Control. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 9886-9903	7.2	13
176	A High Conversion Ratio and High-Efficiency Bidirectional DCDC Converter With Reduced Voltage Stress. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 11827-11842	7.2	15
175	LED driver based on novel ripple cancellation technique for flicker-free operation and reduced power processing. <i>IET Power Electronics</i> , <b>2020</b> , 13, 3026-3031	2.2	1

174	Power ramp-rates of utility-scale PV systems under passing clouds: Module-level emulation with cloud shadow modeling. <i>Applied Energy</i> , <b>2020</b> , 268, 114980	10.7	16
173	Reliable Winding-Based DC-Bus Capacitor Discharge Technique Over Full-Speed Range for IPMSM Drive in Electric Vehicles Without Position Sensor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 8131-8142	8.9	9
172	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6101-6111	8.9	4
171	An Optimized Model Predictive Control for Three-Phase Four-Level Hybrid-Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 6470-6481	7.2	22
170	Accurate FCS Model Predictive Current Control Technique for Surface-Mounted PMSMs at Low Control Frequency. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 5567-5572	7.2	6
169	Control Strategies for Dc-bias Current Elimination in Dual-Active-Bridge DC-DC Converter: An Overview <b>2020</b> ,		3
168	A cost-effective power ramp rate control strategy based on flexible power point tracking for photovoltaic system. <i>Solar Energy</i> , <b>2020</b> , 208, 1058-1067	6.8	5
167	Active Power Control for Grid-Connected Photovoltaic System: A Review <b>2020</b> ,		1
166	Simulation Evaluation of Floating Photovoltaic Power System <b>2020</b> ,		2
165	An Enhanced $V_{OC}$ -Model-Based Global Maximum Power Point Tracking Method for Photovoltaic Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 6825-6834	4.3	4
164	IEEE Access Special Section: Emerging Technologies for Energy Internet. <i>IEEE Access</i> , <b>2020</b> , 8, 213340-213344		3
163	Efficiency Optimization of DC Solid-State Transformer for Photovoltaic Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 3583-3595	8.9	15
162	Perturbation Estimation Based Nonlinear Adaptive Power Decoupling Control for DFIG Wind Turbine. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 319-333	7.2	15
161	Transient DC Bias Elimination of Dual-Active-Bridge DCDC Converter With Improved Triple-Phase-Shift Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 8587-8598	8.9	31
160	Elimination of Photovoltaic Mismatching With Improved Submodule Differential Power Processing. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 2822-2833	8.9	15
159	Comprehensive Studies on Operational Principles for Maximum Power Point Tracking in Photovoltaic Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 121407-121420	3.5	38
158	Effect of High-k Passivation Layer on Electrical Properties of GaN Metal-Insulator-Semiconductor Devices <b>2019</b> ,		2
157	Design and Evaluation of GaN-based Over-Temperature Protection Circuit <b>2019</b> ,		2

156	Advanced Control Scheme for DC Microgrid via Dual Active Bridge and Bus Signaling <b>2019</b> ,		1
155	An Optimal Control for Dual-Active-Bridge DC-DC Converter in Eliminating Transient DC Bias Current <b>2019</b> ,		4
154	Fault Diagnosis of Isolated Bidirectional DC/DC Converter with Triple Phase-Shift Control <b>2019</b> ,		2
153	Analysis, Design, and Experimental Verification of High Step-up DC-DC Converter to Interface Renewable Energy Sources into DC Nanogrid <b>2019</b> ,		2
152	Advanced Modulation Scheme of Dual Active Bridge for High Conversion Efficiency <b>2019</b> ,		2
151	Power rating analysis and protection for photovoltaic-isolated port based differential power processing systems. <i>Solar Energy</i> , <b>2019</b> , 193, 458-472	6.8	8
150	A DC-Bus Capacitor Discharge Strategy for PMSM Drive System With Large Inertia and Small System Safe Current in EVs. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4709-4718	11.9	44
149	Single-Switch High Step-Up DCDC Converter With Low and Steady Switch Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9326-9338	8.9	45
148	Simulation and Analysis of Perturbation and Observation-Based Self-Adaptable Step Size Maximum Power Point Tracking Strategy with Low Power Loss for Photovoltaics. <i>Energies</i> , <b>2019</b> , 12, 92	3.1	12
147	Electrical and Electronic Technologies in More-Electric Aircraft: A Review. <i>IEEE Access</i> , <b>2019</b> , 7, 76145-76156	3.66	45
146	Novel Piecewise Linear Formation of Droop Strategy for DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6747-6755	10.7	19
145	Monolithic integration design of GaN-based power chip including gate driver for high-temperature DCDC converters. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 056505	1.4	14
144	A novel global maximum power point tracking algorithm for photovoltaic system with variable perturbation frequency and zero oscillation. <i>Solar Energy</i> , <b>2019</b> , 181, 345-356	6.8	25
143	Open-Circuit Fault Diagnosis of Dual Active Bridge DC-DC Converter With Extended-Phase-Shift Control. <i>IEEE Access</i> , <b>2019</b> , 7, 23752-23765	3.5	15
142	Forecasting-Based Power Ramp-Rate Control Strategies for Utility-Scale PV Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 1862-1871	8.9	44
141	A novel beta parameter based fuzzy-logic controller for photovoltaic MPPT application. <i>Renewable Energy</i> , <b>2019</b> , 130, 416-427	8.1	79
140	Adaptive perturb and observe maximum power point tracking with current predictive and decoupled power control for grid-connected photovoltaic inverters. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2019</b> , 7, 422-432	4	21
139	Silencing of EPCAM suppresses hepatic fibrosis and hepatic stellate cell proliferation in mice with alcoholic hepatitis via the PI3K/Akt/mTOR signaling pathway. <i>Cell Cycle</i> , <b>2019</b> , 18, 2239-2254	4.7	12

138	The Impact of Etch Depth of D-mode AlGaIn/GaN MIS-HEMTs on DC and AC Characteristics of 10 V Input Direct-Coupled FET Logic (DCFL) Inverters <b>2019</b> ,		1
137	Internal Voltage Phase-Amplitude Dynamic Analysis With Interface Friendly Back-To-Back Power Converter Average Model for Less Power Electronics-Based More-Electric Ship. <i>IEEE Access</i> , <b>2019</b> , 7, 93339-93351		5
136	Global MPPT Method for Photovoltaic Systems Operating under Partial Shading Conditions using the 0.8VOC Model <b>2019</b> ,		2
135	Analysis and experimental verification of a single-switch high-voltage gain ZCS DCDC converter. <i>IET Power Electronics</i> , <b>2019</b> , 12, 2146-2153	2.2	6
134	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 2353-2364	5.5	9
133	Sensor network based PV power nowcasting with spatio-temporal preselection for grid-friendly control. <i>Applied Energy</i> , <b>2019</b> , 255, 113760	10.7	14
132	Double-Vector Model Predictive Control for Single-Phase Five-Level Actively Clamped Converters. <i>IEEE Transactions on Transportation Electrification</i> , <b>2019</b> , 5, 1202-1213	7.6	19
131	An On-Line State Evaluation Method of Smart Meters Based on Information Fusion. <i>IEEE Access</i> , <b>2019</b> , 7, 163665-163676	3.5	5
130	Optimized Transient Modulation Control of Bidirectional Full-Bridge DC-DC Converter <b>2019</b> ,		5
129	An Adaptive Ramp-Rate Control for Photovoltaic System to Mitigate Output Fluctuation <b>2019</b> ,		2
128	Monolithic GaN Half-Bridge Stages With Integrated Gate Drivers for High Temperature DC-DC Buck Converters. <i>IEEE Access</i> , <b>2019</b> , 7, 184375-184384	3.5	12
127	Power generation and performance analysis of Bi-facial vs Mono-facial 10KW Photovoltaic power station <b>2019</b> ,		1
126	mixed-sensitivity robust control design for damping low-frequency oscillations with DFIG wind power generation. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 4274-4286	2.5	12
125	Dual-loop control of transfer delay based PLL for fast dynamics in single-phase AC power systems. <i>IET Power Electronics</i> , <b>2019</b> , 12, 3571-3581	2.2	5
124	Fast Simulation Technique for Photovoltaic Power Systems using Simulink <b>2019</b> ,		1
123	Generator-based threshold for transient stability assessment. <i>IET Smart Grid</i> , <b>2019</b> , 2, 407-419	2.7	4
122	Differential Power Processing based Photovoltaic Power Systems: A Review <b>2019</b> ,		1
121	A Constant Switching Frequency Model Predictive Control Without Weighting Factors for T-Type Single-Phase Three-Level Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5153-5164	8.9	41

120	A Novel Sensorless Photovoltaic Power Reserve Control With Simple Real-Time MPP Estimation. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7521-7531	7.2	37
119	Drift-free current sensorless MPPT algorithm in photovoltaic systems. <i>Solar Energy</i> , <b>2019</b> , 177, 118-126	6.8	18
118	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 1890-1902	4.3	10
117	Position Sensor Fault Detection of IPMSM Using Single DC-Bus Current Sensor With Accuracy Uncertainty. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 753-762	5.5	6
116	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1298-1310	11.9	64
115	Minimum-Backflow-Power Scheme of DAB-Based Solid-State Transformer With Extended-Phase-Shift Control. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 3483-3496	4.3	81
114	Reactive Power Minimization in Bidirectional DCDC Converters Using a Unified-Phasor-Based Particle Swarm Optimization. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 10990-11006	7.2	56
113	Modified Beta Algorithm for GMPPT and Partial Shading Detection in Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 2172-2186	7.2	56
112	. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 3247-3257	7.2	27
111	A method to improve the transient response of dq-frame cascaded delayed-signal-cancellation PLL. <i>Electric Power Systems Research</i> , <b>2018</b> , 155, 121-130	3.5	7
110	Detection and Assessment of Partial Shading Scenarios on Photovoltaic Strings. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 6279-6289	4.3	35
109	The Fault Detection, Localization, and Tolerant Operation of Modular Multilevel Converters with an Insulated Gate Bipolar Transistor (IGBT) Open Circuit Fault. <i>Energies</i> , <b>2018</b> , 11, 837	3.1	6
108	Multi-Port High Voltage Gain Modular Power Converter for Offshore Wind Farms. <i>Sustainability</i> , <b>2018</b> , 10, 2176	3.6	5
107	A novel power-increment based GMPPT algorithm for PV arrays under partial shading conditions. <i>Solar Energy</i> , <b>2018</b> , 169, 353-361	6.8	24
106	Exploration of Virtual Laboratory in Power Engineering Courses <b>2018</b> ,		2
105	A Novel Power Incremental GMPPT Method based on Modified Voltage Lines for Photovoltaic System <b>2018</b> ,		1
104	Triple-Phase-Shifted Bidirectional Full-Bridge Converter with Wide range ZVS <b>2018</b> ,		2
103	Optimal Minimized Reactive Power Boundary Control Based on the Six Natural Switching Surface <b>2018</b> ,		1



102	An Advanced Maximum Power Point Tracking Method for Photovoltaic Systems by Using Variable Universe Fuzzy Logic Control Considering Temperature Variability. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 355	2.6	22
101	Design and Optimization of PV-Isolated-Port Photovoltaic Differential Power Porcessing System <b>2018</b> ,		3
100	Minimum Backflow Power Control of Bidirectional Isolated DC-DC Converters <b>2018</b> ,		1
99	Affine Parameterization for the Dual Phase-Shifted Bidirectional Isolated DC-DC Converters <b>2018</b> ,		1
98	A Novel Photovoltaic String Model Based on the Lambert w Function for Partial Shading Conditions <b>2018</b> ,		1
97	Design a Modified Bi-Directional Converter for Solar LED Lighting System <b>2018</b> ,		3
96	An Improved Equivalent Model for a Long PV String under Partial Shading Conditions <b>2018</b> ,		1
95	A Reconfiguration Method for Extracting Maximum Power from Non-Uniform Aging Solar Panels. <i>Energies</i> , <b>2018</b> , 11, 2743	3.1	14
94	Designing Localized MPPT for PV Systems Using Fuzzy-Weighted Extreme Learning Machine. <i>Energies</i> , <b>2018</b> , 11, 2615	3.1	30
93	Evaluation of Shunt Model for Simulating Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 1818-1823	3.7	19
92	Feasibility Study on Using Electrical Home Appliances for Distributed Reactive Power Support <b>2018</b> ,		2
91	Optimal Analysis and Design of DC-DC Converter to Achieve High Voltage Conversion Gain and High Efficiency for Renewable Energy Systems <b>2018</b> ,		2
90	Topology Derivation and Analysis of Integrated Multiple Output Isolated DCDC Converters With Stacked Configuration for Low-Cost Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2017</b> , 64, 2207-2218	3.9	12
89	An experimental study of MAF-SRF-PLL with comb compensator <b>2017</b> ,		2
88	SRF-PLL with in-loop differentiator decouple filter for unbalanced three-phase systems <b>2017</b> ,		1
87	Power Conditioning <b>2017</b> , 103-171		
86	Dual-coupled inductors-based high step-up DC/DC converter without input electrolytic capacitor for PV application. <i>IET Power Electronics</i> , <b>2017</b> , 10, 646-656	2.2	32
85	A New PV System Configuration Based on Submodule Integrated Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 3278-3284	7.2	20

84	A Fast and Fixed Switching Frequency Model Predictive Control With Delay Compensation for Three-Phase Inverters. <i>IEEE Access</i> , <b>2017</b> , 5, 17904-17913	3.5	58
83	Bridging the transition to DC distribution: A hybrid microgrid for residential apartments <b>2017</b> ,		2
82	A modified MPPT technique based on the MPP-locus method for photovoltaic system <b>2017</b> ,		4
81	Minimum-Reactive-Power Scheme of Dual-Active-Bridge DCDC Converter With Three-Level Modulated Phase-Shift Control. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 5573-5586	4.3	58
80	Design of a novel MPPT algorithm based on the two stage searching method for PV systems under partial shading <b>2017</b> ,		9
79	Hierarchical coordinated control for DC microgrid with crowbar and load shedding control <b>2017</b> ,		2
78	Forecasting based power ramp-rate control for PV systems without energy storage <b>2017</b> ,		21
77	Bidirectional flyback based isolated-port submodule differential power processing optimizer for photovoltaic applications. <i>Solar Energy</i> , <b>2017</b> , 158, 929-940	6.8	44
76	DC Offset Rejection Improvement in Single-Phase SOGI-PLL Algorithms: Methods Review and Experimental Evaluation. <i>IEEE Access</i> , <b>2017</b> , 5, 12810-12819	3.5	77
75	Design and optimization of the PV-virtual-bus differential power processing photovoltaic systems <b>2017</b> ,		5
74	Minimum-power-tracking for PV-PV differential power processing systems <b>2017</b> ,		3
73	Power ramp-rate control based on power forecasting for PV grid-tied systems with minimum energy storage <b>2017</b> ,		10
72	Review and simulation of flyback topology for module level parallel inverters in PV power systems <b>2017</b> ,		3
71	Analysis of the optimum tilt angle for a soiled PV panel. <i>Energy Conversion and Management</i> , <b>2017</b> , 148, 100-109	10.6	60
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69	Review of grid-tied converter topologies used in photovoltaic systems. <i>IET Renewable Power Generation</i> , <b>2016</b> , 10, 1543-1551	2.9	53
68	Synchronous buck converter based low-cost and high-efficiency sub-module DMPPT PV system under partial shading conditions. <i>Energy Conversion and Management</i> , <b>2016</b> , 126, 473-487	10.6	27
67	An Improved MPPT Method for PV System With Fast-Converging Speed and Zero Oscillation. <i>IEEE Transactions on Industry Applications</i> , <b>2016</b> , 52, 5051-5064	4.3	63

66	Distributed MPPT control under partial shading condition <b>2016</b> ,		2
65	Hybrid-mode interleaved boost converter design for fuel cell electric vehicles. <i>Energy Conversion and Management</i> , <b>2016</b> , 122, 477-487	10.6	28
64	Dispatching and Frequency Control Strategies for Marine Current Turbines Based on Doubly Fed Induction Generator. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 262-270	8.2	14
63	Advanced Fault Ride-Through Management Scheme for VSC-HVDC Connecting Offshore Wind Farms. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 4923-4934	7	34
62	Operating modes and practical power flow analysis of bidirectional isolated power interface for distributed power systems. <i>Energy Conversion and Management</i> , <b>2016</b> , 111, 229-238	10.6	12
61	Gallium-Nitride-Based Submodule Integrated Converters for High-Efficiency Distributed Maximum Power Point Tracking PV Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 966-975	8.9	43
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57	Control and efficiency optimization of Dual-Active-Bridge DC/DC converter <b>2016</b> ,		1
56	Reactive power reduction method based on harmonics analysis for dual active bridge converters with 3-level modulated phase-shift control <b>2016</b> ,		2
55	Control and protection of DC Microgrid with battery energy storage system <b>2016</b> ,		3
54	Control method for flyback based submodule integrated converter with differential power processing structure <b>2016</b> ,		4
53	Evaluation of different maximum power point tracking (MPPT) techniques based on practical meteorological data <b>2016</b> ,		12
52	Modeling and analysis of coordinated control strategies in AC microgrid <b>2016</b> ,		4
51	Unified harmonics based method to reduce reactive power of the dual active bridge converter <b>2016</b> ,		3
50	Modeling and simulation of energy control strategies in AC Microgrid <b>2016</b> ,		3
49	Power management of Solid State Transformer in microgrids <b>2016</b> ,		1

48	Evaluation of different Maximum power point tracking techniques by using EN 50530 dynamic test standard <b>2016</b> ,		4
47	Integration of Start/Stop Mechanism to Improve Maximum Power Point Tracking Performance in Steady State. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 6126-6135	8.9	14
46	Research on slow-scale bifurcation phenomenon of PFC cascade converter. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2824-2832	2.2	6
45	Shadowing effect on the power output of a photovoltaic panel <b>2016</b> ,		1
44	A fuzzy logic controller with beta parameter for maximum power point tracking of Photovoltaic systems <b>2016</b> ,		1
43	Novel Power Smoothing and Generation Scheduling Strategies for a Hybrid Wind and Marine Current Turbine System. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 1-1	7	11
42	Improved deterministic real-time estimation of Maximum Power Point in photovoltaic power systems <b>2015</b> ,		1
41	DC-link voltage control strategy for reducing capacitance and total harmonic distortion in single-phase grid-connected photovoltaic inverters. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1386-1393	2.2	36
40	Perturbation optimization of maximum power point tracking of photovoltaic power systems based on practical solar irradiance data <b>2015</b> ,		12
39	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> , <b>2015</b> , 6, 142-150	8.2	28
38	Three-Port DC/DC Converter for Stand-Alone Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 3068-3076	7.2	91
37	Modeling and MPPT control of DFIG wind energy system <b>2015</b> ,		1
36	Improved beta parameter based MPPT method in photovoltaic system <b>2015</b> ,		10
35	Modeling and LVRT analysis of DFIG wind power system <b>2015</b> ,		5
34	Reactive Power and Soft-Switching Capability Analysis of Dual-Active-Bridge DC-DC Converters with Dual-Phase-Shift Control. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 18-30	0.9	21
33	Practical Implementation of an Interleaved Boost Converter for Electric Vehicle Applications. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 1035-1046	0.9	2
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28	New Modular Structure DCDC Converter Without Electrolytic Capacitors for Renewable Energy Applications. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 1184-1192	8.2	32
27	Nonactive Power Loss Minimization in a Bidirectional Isolated DCDC Converter for Distributed Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6822-6831	8.9	107
26	Online Supervisory Voltage Control for Grid Interface of Utility-Level PV Plants. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 843-853	8.2	23
25	Control approach to achieve burst mode operation with DC-link voltage protection in single-phase two-stage PV inverters <b>2014</b> ,		1
24	A Parameterization Approach for Enhancing PV Model Accuracy. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 5708-5716	8.9	155
23	Fault ride through capability for grid interfacing large scale PV power plants. <i>IET Generation, Transmission and Distribution</i> , <b>2013</b> , 7, 1027-1036	2.5	93
22	A practical load sharing control strategy for DC microgrids and DC supplied houses <b>2013</b> ,		3
21	Current-Fed High-Frequency AC Distributed Power System for Medium-High-Voltage Gate Driving Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 3736-3751	8.9	12
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19	Efficient Approaches for Modeling and Simulating Photovoltaic Power Systems. <i>IEEE Journal of Photovoltaics</i> , <b>2013</b> , 3, 500-508	3.7	111
18	Review of current sensorless maximum power point tracking technologies for photovoltaic power systems <b>2013</b> ,		4
17	Statistic and Parallel Testing Procedure for Evaluating Maximum Power Point Tracking Algorithms of Photovoltaic Power Systems. <i>IEEE Journal of Photovoltaics</i> , <b>2013</b> , 3, 1062-1069	3.7	25
16	Low conduction loss and low device stress three-level power factor correction rectifier. <i>IET Power Electronics</i> , <b>2013</b> , 6, 478-487	2.2	4
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14	A soft-switching post-regulator for multi-outputs dual forward DC/DC converter with tight output voltage regulation. <i>IET Power Electronics</i> , <b>2013</b> , 6, 1069-1077	2.2	21
13	Adaptive control of grid connected photovoltaic inverter for maximum VA utilization <b>2013</b> ,		11

12	Passive harmonic filter planning to overcome power quality issues in radial distribution systems <b>2012,</b>		10
11	Analysis and minimisation of DC bus surge voltage for electric vehicle applications. <i>IET Electrical Systems in Transportation</i> , <b>2012</b> , 2, 68	2.1	9
10	Analysis and Evaluation of DC-Link Capacitors for High-Power-Density Electric Vehicle Drive Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 2950-2964	6.8	130
9	Reliability Evaluation of Grid-Connected Photovoltaic Power Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2012</b> , 3, 379-389	8.2	104
8	Modeling and control of DAB applied in a PV based DC microgrid <b>2012,</b>		4
7	Overview of maximum power point tracking technologies for photovoltaic power systems <b>2011,</b>		50
6	Communication systems for grid integration of renewable energy resources. <i>IEEE Network</i> , <b>2011</b> , 25, 22-29	11.4	112
5	Allowable DG penetration level considering harmonic distortions <b>2011,</b>		6
4	Estimating power losses in Dual Active Bridge DC-DC converter <b>2011,</b>		12
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1	Dynamic Response Improvement for DAB Converter with Constant Power Load under Extended-Phase-Shift Control Based on Trajectory Control		