Yongheng Yang

List of Publications by Citations

Source: https://exaly.com/author-pdf/3108051/yongheng-yang-publications-by-citations.pdf
Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326 papers	5,922 citations	40 h-index	64 g-index
409 ext. papers	8,630 ext. citations	5.1 avg, IF	6.76 L-index

#	Paper	IF	Citations
326	Distributed Power-Generation Systems and Protection. *Proceedings of the IEEE*, **2017**, 105, 1311-1331	14.3	229
325	Low-Voltage Ride-Through of Single-Phase Transformerless Photovoltaic Inverters. *IEEE Transactions on Industry Applications*, **2014**, 50, 1942-1952	4.3	213
324	Benchmarking of Grid Fault Modes in Single-Phase Grid-Connected Photovoltaic Systems. *IEEE Transactions on Industry Applications*, **2013**, 49, 2167-2176	4.3	159
323	Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid. *IEEE Industry Applications Magazine*, **2015**, 21, 21-31	0.6	156
322	. *IEEE Transactions on Industry Applications*, **2014**, 50, 4065-4076	4.3	154
321	Design and Analysis of Robust Active Damping for LCL Filters Using Digital Notch Filters. *IEEE Transactions on Power Electronics*, **2017**, 32, 2360-2375	7.2	137
320	High-Performance Constant Power Generation in Grid-Connected PV Systems. *IEEE Transactions on Power Electronics*, **2016**, 31, 1822-1825	7.2	130
319	LCL-Filter Design for Robust Active Damping in Grid-Connected Converters. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 2192-2203	11.9	126
318	Control Strategy for Three-Phase Grid-Connected PV Inverters Enabling Current Limitation Under Unbalanced Faults. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8908-8918	8.9	124
317	A Hybrid Power Control Concept for PV Inverters With Reduced Thermal Loading. *IEEE Transactions on Power Electronics*, **2014**, 29, 6271-6275	7.2	113
316	Power control flexibilities for grid-connected multi-functional photovoltaic inverters. *IET Renewable Power Generation*, **2016**, 10, 504-513	2.9	104
315	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. *IEEE Transactions on Power Electronics*, **2015**, 30, 3912-3924	7.2	103
314	A Sensorless Power Reserve Control Strategy for Two-Stage Grid-Connected PV Systems. *IEEE Transactions on Power Electronics*, **2017**, 32, 8559-8569	7.2	90
313	Lifetime Evaluation of Grid-Connected PV Inverters Considering Panel Degradation Rates and Installation Sites. *IEEE Transactions on Power Electronics*, **2018**, 33, 1225-1236	7.2	85
312	A Two-Stage Robust Optimization for Centralized-Optimal Dispatch of Photovoltaic Inverters in Active Distribution Networks. *IEEE Transactions on Sustainable Energy*, **2017**, 8, 744-754	8.2	84
311	Thermal Performance and Reliability Analysis of Single-Phase PV Inverters With Reactive Power Injection Outside Feed-In Operating Hours. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2015**, 3, 870-880	5.6	83
310	Prediction of Bond Wire Fatigue of IGBTs in a PV Inverter Under a Long-Term Operation. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	78

309	Current Harmonics From Single-Phase Grid-Connected Inverters Examination and Suppression. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 221-233	5.6	72
308	A Synchronization Method for Single-Phase Grid-Tied Inverters. *IEEE Transactions on Power Electronics*, **2016**, 31, 2139-2149	7.2	67
307	Design for Reliability of Power Electronics for Grid-Connected Photovoltaic Systems. *CPSS Transactions on Power Electronics and Applications*, **2016**, 1, 92-103	3.5	65
306	Overview of Single-phase Grid-connected Photovoltaic Systems. *Electric Power Components and Systems*, **2015**, 43, 1352-1363	1	63
305	. *IEEE Transactions on Industry Applications*, **2017**, 53, 3862-3870	4.3	62
304	Low-Voltage Ride-Through Capability of a Single-Stage Single-Phase Photovoltaic System Connected to the Low-Voltage Grid. *International Journal of Photoenergy*, **2013**, 2013, 1-9	2.1	62
303	An Improved Virtual Inertia Control for Three-Phase Voltage Source Converters Connected to a Weak Grid. *IEEE Transactions on Power Electronics*, **2019**, 34, 8660-8670	7.2	62
302	. *IEEE Transactions on Industry Applications*, **2018**, 54, 447-457	4.3	56
301	Three-phase phase-locked loop synchronization algorithms for grid-connected renewable energy systems: A review. *Renewable and Sustainable Energy Reviews*, **2018**, 90, 434-452	16.2	53
300	On the Impacts of PV Array Sizing on the Inverter Reliability and Lifetime. *IEEE Transactions on Industry Applications*, **2018**, 54, 3656-3667	4.3	52
299	Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages. *IEEE Transactions on Power Systems*, **2020**, 35, 571-583	7	52
298	Simplified Thermal Modeling for IGBT Modules With Periodic Power Loss Profiles in Modular Multilevel Converters. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 2323-2332	8.9	51
297	A Data-Driven Stochastic Reactive Power Optimization Considering Uncertainties in Active Distribution Networks and Decomposition Method. *IEEE Transactions on Smart Grid*, **2018**, 9, 4994-5004	10.7	49
296	Power electronics - the key technology for renewable energy system integration **2015**,		49
295	Detecting False Data Injection Attacks Against Power System State Estimation With Fast Go-Decomposition Approach. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 2892-2904	11.9	48
294	An Adaptive Control Scheme for Flexible Power Point Tracking in Photovoltaic Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 5451-5463	7.2	47
293	Duality-Free Decomposition Based Data-Driven Stochastic Security-Constrained Unit Commitment. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 82-93	8.2	47
292	Fault ride-through control of grid-connected photovoltaic power plants: A review. *Solar Energy*, **2019**, 180, 340-350	6.8	45

291	Hotspot diagnosis for solar photovoltaic modules using a Naive Bayes classifier. *Solar Energy*, **2019**, 190, 34-43	6.8	44
290	Enhancing the Frequency Adaptability of Periodic Current Controllers With a Fixed Sampling Rate for Grid-Connected Power Converters. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	44
289	Analysis and Modeling of Interharmonics From Grid-Connected Photovoltaic Systems. *IEEE Transactions on Power Electronics*, **2018**, 33, 8353-8364	7.2	43
288	Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems **2013**,		43
287	Transient Analysis of Microgrids With Parallel Synchronous Generators and Virtual Synchronous Generators. *IEEE Transactions on Energy Conversion*, **2020**, 35, 95-105	5.4	42
286	A Synchronization Scheme for Single-Phase Grid-Tied Inverters Under Harmonic Distortion and Grid Disturbances. *IEEE Transactions on Power Electronics*, **2017**, 32, 2784-2793	7.2	40
285	On the Stability of Power Electronics-Dominated Systems: Challenges and Potential Solutions. *IEEE Transactions on Industry Applications*, **2019**, 55, 7657-7670	4.3	40
284	. *IEEE Transactions on Power Electronics*, **2018**, 33, 6248-6261	7.2	40
283	Constant power generation of photovoltaic systems considering the distributed grid capacity **2014**,		40
282	Integrated demand response for a load serving entity in multi-energy market considering network constraints. *Applied Energy*, **2019**, 250, 512-529	10.7	39
281	Analysis and Mitigation of Dead-Time Harmonics in the Single-Phase Full-Bridge PWM Converter With Repetitive Controllers. *IEEE Transactions on Industry Applications*, **2018**, 54, 5343-5354	4.3	39
280	Optimal Selective Harmonic Control for Power Harmonics Mitigation. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 1220-1230	8.9	38
279	Droop Control With Improved Disturbance Adaption for a PV System With Two Power Conversion Stages. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6073-6085	8.9	38
278	Mission profile based multi-disciplinary analysis of power modules in single-phase transformerless photovoltaic inverters **2013**,		37
277	Power electronics - Key technology for renewable energy systems - Status and future **2013**,		35
276	Real Field Mission Profile Oriented Design of a SiC-Based PV-Inverter Application. *IEEE Transactions on Industry Applications*, **2014**, 50, 4082-4089	4.3	35
275	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. *IEEE Transactions on Power Electronics*, **2020**, 35, 9342-9356	7.2	35
274	A Multipulse Pattern Modulation Scheme for Harmonic Mitigation in Three-Phase Multimotor Drives. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 174-185	5.6	32

273	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. *IEEE Transactions on Industry Applications*, **2020**, 56, 601-610	4.3	30
272	Synchronization in single-phase grid-connected photovoltaic systems under grid faults **2012**,		29
271	Impact of lifetime model selections on the reliability prediction of IGBT modules in modular multilevel converters **2017**,		29
270	Optimization and dynamic techno-economic analysis of a novel PVT-based smart building energy system. *Applied Thermal Engineering*, **2020**, 181, 115926	5.8	29
269	Review of mismatch mitigation techniques for PV modules. *IET Renewable Power Generation*, **2019**, 13, 2035-2050	2.9	28
268	Optimal Electric Vehicle Charging Strategy With Markov Decision Process and Reinforcement Learning Technique. *IEEE Transactions on Industry Applications*, **2020**, 56, 5811-5823	4.3	28
267	A 1-MHz Series Resonant DCDC Converter With a Dual-Mode Rectifier for PV Microinverters. *IEEE Transactions on Power Electronics*, **2019**, 34, 6544-6564	7.2	26
266	Benchmarking of phase locked loop based synchronization techniques for grid-connected inverter systems **2015**,		25
265	. *IEEE Transactions on Industry Applications*, **2018**, 54, 1592-1601	4.3	25
264	Optimization Design and Control of Single-Stage Single-Phase PV Inverters for MPPT Improvement. *IEEE Transactions on Power Electronics*, **2020**, 35, 13000-13016	7.2	24
263	Resilient Synchronization Strategy for AC Microgrids Under Cyber Attacks. *IEEE Transactions on Power Electronics*, **2021**, 36, 73-77	7.2	24
262	Hotspots and performance evaluation of crystalline-silicon and thin-film photovoltaic modules. *Microelectronics Reliability*, **2018**, 88-90, 1014-1018	1.2	24
261	Step by step design of a high order power filter for three-phase three-wire grid-connected inverter in renewable energy system **2013**,		23
260	Single-Sensor Control of LCL-Filtered Grid-Connected Inverters. *IEEE Access*, **2019**, 7, 38481-38494	3.5	22
259	Hybrid UP-PWM Scheme for HERIC Inverter to Improve Power Quality and Efficiency. *IEEE Transactions on Power Electronics*, **2019**, 34, 4292-4303	7.2	22
258	Harmonics mitigation of dead time effects in PWM converters using a repetitive controller **2015**,		21
257	A Fixed-Length Transfer Delay Based Adaptive Frequency-Locked Loop for Single-Phase Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 4000-4004	7.2	21
256	A Six-Switch Seven-Level Triple-Boost Inverter. *IEEE Transactions on Power Electronics*, **2021**, 36, 1225-1230	7.2	21

255	Parameter Identification of Inverter-Fed Induction Motors: A Review. *Energies*, **2018**, 11, 2194	3.1	21
254	A Hierarchical Modeling for Reactive Power Optimization With Joint Transmission and Distribution Networks by Curve Fitting. *IEEE Systems Journal*, **2018**, 12, 2739-2748	4.3	20
253	Pursuing Photovoltaic Cost-Effectiveness: Absolute Active Power Control Offers Hope in Single-Phase PV Systems. *IEEE Industry Applications Magazine*, **2017**, 23, 40-49	0.6	20
252	An Interaction-Admittance Model for Multi-Inverter Grid-Connected Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 7542-7557	7.2	20
251	Operation and Modulation of H7 Current-Source Inverter With Hybrid SiC and Si Semiconductor Switches. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 387-399	5.6	20
250	A Multilevel Inverter with Minimized Components Featuring Self-balancing and Boosting Capabilities for PV Applications. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 1-1	5.6	19
249	An Enhanced Dual Droop Control Scheme for Resilient Active Power Sharing Among Paralleled Two-Stage Converters. *IEEE Transactions on Power Electronics*, **2017**, 32, 6091-6104	7.2	19
248	. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 956-969	5.6	19
247	A DC-Link Modulation Scheme With Phase-Shifted Current Control for Harmonic Cancellations in Multidrive Applications. *IEEE Transactions on Power Electronics*, **2016**, 31, 1837-1840	7.2	18
246	Efficiency Comparison of AC and DC Distribution Networks for Modern Residential Localities. *Applied Sciences (Switzerland)*, **2019**, 9, 582	2.6	18
245	Instantaneous thermal modeling of the DC-link capacitor in PhotoVoltaic systems **2015**,		18
244	Design for Reliability of Power Electronic Systems **2018**, 1423-1440		18
243	Reduced junction temperature control during low-voltage ride-through for single-phase photovoltaic inverters. *IET Power Electronics*, **2014**, 7, 2050-2059	2.2	18
242	A Tight Linear Program for Feasibility Check and Solutions to Natural Gas Flow Equations. *IEEE Transactions on Power Systems*, **2019**, 34, 2441-2444	7	17
241	Reactive power injection strategies for single-phase photovoltaic systems considering grid requirements **2014**,		17
240	Reliability-oriented design and analysis of input capacitors in single-phase transformer-less photovoltaic inverters **2013**,		17
239	Development of flexible active power control strategies for grid-connected photovoltaic inverters by modifying MPPT algorithms **2017**,		17
238	A new power calculation method for single-phase grid-connected systems **2013**,		17

237	Performance Analysis of a Grid-Connected Rooftop Solar Photovoltaic System. *Electronics (Switzerland)*, **2019**, 8, 905	2.6	16
236	Extended analysis on Line-Line and Line-Ground faults in PV arrays and a compatibility study on latest NEC protection standards. *Energy Conversion and Management*, **2019**, 196, 988-1001	10.6	16
235	Ensuring a Reliable Operation of Two-Level IGBT-Based Power Converters: A Review of Monitoring and Fault-Tolerant Approaches. *IEEE Access*, **2020**, 8, 89988-90022	3.5	16
234	Enhancing PV Inverter Reliability With Battery System Control Strategy. *CPSS Transactions on Power Electronics and Applications*, **2018**, 3, 93-101	3.5	16
233	Enhanced Phase-Shifted Current Control for Harmonic Cancellation in Three-Phase Multiple Adjustable Speed Drive Systems. *IEEE Transactions on Power Delivery*, **2017**, 32, 996-1004	4.3	16
232	Coordination of Virtual Inertia Control and Frequency Damping in PV Systems for Optimal Frequency Support. *CPSS Transactions on Power Electronics and Applications*, **2020**, 5, 305-316	3.5	16
231	Predictive Pulse-Pattern Current Modulation Scheme for Harmonic Reduction in Three-Phase Multidrive Systems. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5932-5942	8.9	16
230	Impact of Modulation Strategies on the Reliability and Harmonics of Impedance-Source Inverters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3968-3981	5.6	16
229	Power electronics - The key technology for Renewable Energy Systems **2014**,		15
228	Zero-Voltage Ride-Through Capability of Single-Phase Grid-Connected Photovoltaic Systems. *Applied Sciences (Switzerland)*, **2017**, 7, 315	2.6	15
227	What is Energy Internet? Concepts, Technologies, and Future Directions. *IEEE Access*, **2020**, 8, 183127-183145	3.5	15
226	Primary frequency control techniques for large-scale PV-integrated power systems: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 144, 110998	16.2	15
225	A cost-effective power ramp-rate control strategy for single-phase two-stage grid-connected photovoltaic systems **2016**,		15
224	A fast MPPT-based anomaly detection and accurate fault diagnosis technique for PV arrays. *Energy Conversion and Management*, **2021**, 234, 113950	10.6	14
223	A Single-Source Nine-Level Boost Inverter with A Low Switch Count. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	14
222	A Review on Direct Power Control of Pulsewidth Modulation Converters. *IEEE Transactions on Power Electronics*, **2021**, 36, 11984-12007	7.2	14
221	Digital notch filter based active damping for LCL filters **2015**,		13
220	Harmonics suppression for single-phase grid-connected PV systems in different operation modes **2013**,		13

219	Mission profile translation to capacitor stresses in grid-connected photovoltaic systems **2014**,		13
218	Phase Reshaping via All-Pass Filters for Robust LCL-Filter Active Damping. *IEEE Transactions on Power Electronics*, **2020**, 35, 3114-3126	7.2	13
217	Reliability analysis of single-phase PV inverters with reactive power injection at night considering mission profiles **2015**,		12
216	A Multi-State Dynamic Thermal Model for Accurate Photovoltaic Cell Temperature Estimation. *IEEE Journal of Photovoltaics*, **2020**, 10, 1465-1473	3.7	12
215	Analysis and design of a high voltage-gain quasi-Z-source DCDC converter. *IET Power Electronics*, **2020**, 13, 1837-1847	2.2	12
214	Second-order cone programming relaxation-based optimal power flow with hybrid VSC-HVDC transmission and active distribution networks. *IET Generation, Transmission and Distribution*, **2017**, 11, 3665-3674	2.5	12
213	Interharmonics from grid-connected PV systems: Mechanism and mitigation **2017**,		12
212	Improved reliability of single-phase PV inverters by limiting the maximum feed-in power **2014**,		12
211	PLL- and FLL-Based Speed Estimation Schemes for Speed-Sensorless Control of Induction Motor Drives: Review and New Attempts. *IEEE Transactions on Power Electronics*, **2022**, 37, 3334-3356	7.2	12
210	Evaluating maximum photovoltaic integration in district distribution systems considering optimal inverter dispatch and cloud shading conditions. *IET Renewable Power Generation*, **2017**, 11, 165-172	2.9	11
209	Benchmarking of Voltage Sag Generators **2012**,		11
208	Grid-friendly power control for smart photovoltaic systems. *Solar Energy*, **2020**, 210, 115-127	6.8	11
207	Energy Storage for 1500 V Photovoltaic Systems: A Comparative Reliability Analysis of DC- and AC-Coupling. *Energies*, **2020**, 13, 3355	3.1	11
206	A Novel Single-Stage Five-Level Common-Ground-Boost-Type Active Neutral-Point-Clamped (5L-CGBT-ANPC) Inverter. *IEEE Transactions on Power Electronics*, **2021**, 36, 6192-6196	7.2	11
205	Loss distribution analysis of three-level active neutral-point-clamped (3L-ANPC) converter with different PWM strategies **2016**,		11
204	Co-Design of the PV Array and DC/AC Inverter for Maximizing the Energy Production in Grid-Connected Applications. *IEEE Transactions on Energy Conversion*, **2019**, 34, 509-519	5.4	11
203	Reduced switch-count structure for symmetric multilevel inverters with a novel switched-DC-source submodule. *IET Power Electronics*, **2019**, 12, 311-321	2.2	11
202	Low voltage ride-through of two-stage grid-connected photovoltaic systems through the inherent linear power-voltage characteristic **2017**,		10

201	A review on current reference calculation of three-phase grid-connected PV converters under grid faults **2017**,		10
200	Switched-capacitor multilevel inverter with self-voltage-balancing for high-frequency power distribution system. *IET Power Electronics*, **2020**, 13, 1807-1818	2.2	10
199	Virtual Unit Delay for digital frequency adaptive T/4 Delay Phase-Locked Loop system **2016**,		10
198	. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 1837-1845	5.6	10
197	The impact of mission profile models on the predicted lifetime of IGBT modules in the modular multilevel converter **2017**,		10
196	Transient modelling of loss and thermal dynamics in power semiconductor devices **2014**,		10
195	A low-voltage ride-through control strategy for three-phase grid-connected PV systems **2017**,		10
194	A Modified Y-Source DCDC Converter With High Voltage-Gains and Low Switch Stresses. *IEEE Transactions on Power Electronics*, **2020**, 35, 7716-7720	7.2	10
193	Bridgeless PFC Topology Simplification and Design for Performance Benchmarking. *IEEE Transactions on Power Electronics*, **2021**, 36, 5398-5414	7.2	10
192	Confidentiality preservation in user-side integrated energy system management for cloud computing. *Applied Energy*, **2018**, 231, 1230-1245	10.7	10
191	Frequency adaptability of harmonics controllers for grid-interfaced converters. *International Journal of Control*, **2017**, 90, 3-14	1.5	9
190	Rotor inertia adaptive control and inertia matching strategy based on parallel virtual synchronous generators system. *IET Generation, Transmission and Distribution*, **2020**, 14, 1854-1861	2.5	9
189	An Overview of Photovoltaic Microinverters: Topology, Efficiency, and Reliability **2019**,		9
188	Maximum Virtual Inertia From DC-Link Capacitors Considering System Stability at Voltage Control Timescale. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2021**, 11, 79-89	5.2	9
187	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems **2016**,		9
186	Modulation for the AVC-HERIC Inverter to Compensate for Deadtime and Minimum Pulsewidth Limitation Distortions. *IEEE Transactions on Power Electronics*, **2020**, 35, 2571-2584	7.2	9
185	Characteristics Analysis and Measurement of Inverter-Fed Induction Motors for Stator and Rotor Fault Detection. *Energies*, **2020**, 13, 101	3.1	8
184	Mission profile based sizing of IGBT chip area for PV inverter applications **2016**,		8

183	Evaluation of Interconnection Configuration Schemes for PV Modules with Switched-Inductor Converters under Partial Shading Conditions. *Energies*, **2019**, 12, 2802	3.1	8
182	**2014**,		8
181	Benchmarking of grid fault modes in single-phase grid-connected photovoltaic systems **2012**,		8
180	Speed-Sensorless Control of Linear Induction Motor Based on the SSLKF-PLL Speed Estimation Scheme. *IEEE Transactions on Industry Applications*, **2020**, 56, 4986-5002	4.3	8
179	Seven-level boosting active neutral point clamped inverter using cross-connected switched capacitor cells. *IET Power Electronics*, **2020**, 13, 1919-1924	2.2	8
178	Sensorless reserved power control strategy for two-stage grid-connected Photovoltaic systems **2016**,		8
177	Risk assessment-based long-term transmission system hardening under prior probabilistic information. *IET Generation, Transmission and Distribution*, **2019**, 13, 108-115	2.5	8
176	A Phase-Shifting MPPT to Mitigate Interharmonics From Cascaded H-Bridge PV Inverters. *IEEE Transactions on Industry Applications*, **2021**, 57, 3052-3063	4.3	8
175	Lifetime Evaluation of Three-Level Inverters for 1500-V Photovoltaic Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 4285-4298	5.6	8
174	A Novel Boost Cascaded Multilevel Inverter. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 8072-8080	8.9	8
173	Distributed Control of Islanded Series PV-Battery-Hybrid Systems With Low Communication Burden. *IEEE Transactions on Power Electronics*, **2021**, 36, 10199-10213	7.2	8
172	Negative Reactance Impacts on the Eigenvalues of the Jacobian Matrix in Power Flow and Type-1 Low-Voltage Power-Flow Solutions. *IEEE Transactions on Power Systems*, **2017**, 32, 3471-3481	7	7
171	A Dual-Loop Control to Ensure Fast and Stable Fault-Tolerant Operation of Series Resonant DAB Converters. *IEEE Transactions on Power Electronics*, **2020**, 35, 10994-11012	7.2	7
170	A Family of Single-Stage, Buck-Boost Inverters for Photovoltaic Applications. *Energies*, **2020**, 13, 1675	3.1	7
169	Load-independent harmonic mitigation in SCR-fed three-phase multiple adjustable speed drive systems with deliberately dispatched firing angles. *IET Power Electronics*, **2018**, 11, 727-734	2.2	7
168	A Simplification Method for Power Device Thermal Modeling With Quantitative Error Analysis. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 1649-1658	5.6	7
167	Modeling and Evaluation of Stator and Rotor Faults for Induction Motors. *Energies*, **2020**, 13, 133	3.1	7
166	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 4014-4026	8.9	7

165	Distributed Optimal Control of Energy Hubs for Micro-Integrated Energy Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2145-2158	7.3	7
164	Generalized Space Vector Modulation for Ripple Current Reduction in Quasi-Z-Source Inverters. *IEEE Transactions on Power Electronics*, **2021**, 36, 1730-1741	7.2	7
163	Quantifying Cyber Attacks on Industrial MMC-HVDC Control System Using Structured Pseudospectrum. *IEEE Transactions on Power Electronics*, **2021**, 36, 4915-4920	7.2	7
162	A Review on Transformerless Step-Up Single-Phase Inverters with Different DC-Link Voltage for Photovoltaic Applications. *Energies*, **2019**, 12, 3626	3.1	6
161	Minimizing the levelized cost of energy in single-phase photovoltaic systems with an absolute active power control **2015**,		6
160	A Switched Quasi-Z-Source Inverter with Continuous Input Currents. *Energies*, **2020**, 13, 1390	3.1	6
159	Impacts of PV array sizing on PV inverter lifetime and reliability **2017**,		6
158	Power quality improvement of single-phase photovoltaic systems through a robust synchronization method **2014**,		6
157	Multi-objective optimization of a combined cooling, heating, and power system with subcooled compressed air energy storage considering off-design characteristics. *Applied Thermal Engineering*, **2021**, 187, 116562	5.8	6
156	A robust parametrization method of photovoltaic modules for enhancing one-diode model accuracy under varying operating conditions. *Renewable Energy*, **2021**, 168, 764-778	8.1	6
155	Delta power control strategy for multi-string grid-connected PV inverters **2016**,		6
154	A review of electronic inductor technique for power factor correction in three-phase adjustable speed drives **2016**,		6
153	Impact of Negative Reactance on Definiteness of B-Matrix and Feasibility of DC Power Flow. *IEEE Transactions on Smart Grid*, **2019**, 10, 1725-1734	10.7	6
152	Intelligent Parameter Design-Based Impedance Optimization of STATCOM to Mitigate Resonance in Wind Farms. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 3201-3215	5.6	6
151	Sensorless Control of DC Microgrid Based on Artificial Intelligence. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2319-2329	5.4	6
150	An Interlinking Converter for Renewable Energy Integration Into Hybrid Grids. *IEEE Transactions on Power Electronics*, **2021**, 36, 2499-2504	7.2	6
149	Design Implementation and Operation of an Education Laboratory-Scale Microgrid. *IEEE Access*, **2021**, 1-1	3.5	6
148	Design of Digital Filter-based Highly Robust Active Damping for LCL-filtered Grid-tied Inverters **2018**,		6

147	Impact of meteorological variations on the lifetime of grid-connected PV inverters. *Microelectronics Reliability*, **2018**, 88-90, 1019-1024	1.2	6
146	Lifetime evaluation of PV inverters considering panel degradation rates and installation sites **2017**,		5
145	Power Talk: A novel power line communication in DC MicroGrid **2016**,		5
144	Control of Single-Phase and Three-Phase DC/AC Converters **2018**, 153-173		5
143	Low voltage ride-through of single-phase transformerless photovoltaic inverters **2013**,		5
142	A modified P&O MPPT algorithm for single-phase PV systems based on deadbeat control **2012**,		5
141	Advanced Control of Photovoltaic and Wind Turbines Power Systems. *Studies in Computational Intelligence*, **2014**, 41-89	0.8	5
140	Defense Strategy for Resilient Shipboard Power Systems Considering Sequential Attacks. *IEEE Transactions on Information Forensics and Security*, **2020**, 15, 3443-3453	8	5
139	. *IEEE Systems, Man, and Cybernetics Magazine*, **2021**, 7, 10-19	1.6	5
138	A New 5-Level ANPC Switched Capacitor Inverter Topology for Photovoltaic Applications **2019**,		5
137	An Eight-Switch Five-Level Current Source Inverter. *IEEE Transactions on Power Electronics*, **2019**, 34, 8389-8404	7.2	5
136	Common-Mode Voltage Reduction With Improved Output Voltage for Three-to-Five-Phase Indirect Matrix Converters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 2918-2929	5.6	5
135	Reconsideration of Grid-Friendly Low-Order Filter Enabled by Parallel Converters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 3177-3188	5.6	5
134	Sub-Synchronous Oscillation Characteristics and Analysis of Direct-Drive Wind Farms With VSC-HVDC Systems. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 1127-1140	8.2	5
133	. *IEEE Transactions on Energy Conversion*, **2021**, 36, 767-778	5.4	5
132	Speed-Sensorless Control of Induction Motors with An Open-Loop Synchronization Method. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	5
131	Bi-Level Programming-Based Optimal Strategy to LSEs with Demand Response Bids. *Electric Power Components and Systems*, **2018**, 46, 1926-1937	1	5
130	Zonally Robust Decentralized Optimization for Global Energy Interconnection: Case Study on Northeast Asian Countries. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 2120-2129	4.9	4

129	Event-Triggering Power Reserve Control for Grid-Connected PV Systems **2020**,		4
128	Grid Synchronization for Distributed Generations **2017**, 179-194		4
127	Solar Power Sources: PV, Concentrated PV, and Concentrated Solar Power **2017**, 17-40		4
126	A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems **2018**,		4
125	Reliability Assessment of Transformerless PV Inverters considering Mission Profiles. *International Journal of Photoenergy*, **2015**, 2015, 1-10	2.1	4
124	A novel harmonic elimination approach in three-phase multi-motor drives **2015**,		4
123	Advanced design tools for the reliability of power electronics Case studies on a photovoltaic (PV) system **2015**,		4
122	A Speed Estimation Scheme Based on An Improved SOGI-FLL for Speed-Sensorless Control of Induction Motor Drives **2020**,		4
121	Exploitation of digital filters to advance the single-phase T/4 delay PLL system **2016**,		4
120	Power electronic technologies for PV systems **2019**, 15-43		4
119	Active Damping of LCL Filters with All-Pass Filters Considering Grid Impedance Variations and Parameter Drifts **2018**,		4
118	Wear-out evolution analysis of multiple-bond-wires power modules based on thermo-electro-mechanical FEM simulation. *Microelectronics Reliability*, **2019**, 100-101, 113472	1.2	3
117	Prediction of bond wire fatigue of IGBTs in a PV inverter under long-term operation **2015**,		3
116	Impact of reactive power injection outside feed-in hours on the reliability of photovoltaic inverters **2015**,		3
115	An islanding detection based on droop characteristic for virtual synchronous generator. *International Journal of Electrical Power and Energy Systems*, **2020**, 123, 106277	5.1	3
114	Modeling and Control of Single-Phase AC/DC Converters **2018**, 93-115		3
113	Modeling and Control of PV Systems **2018**, 243-268		3
112	A novel model predictive control for single-phase grid-connected photovoltaic inverters **2017**,		3

111	A family of cost-effective magnetically-coupled impedance source inverters **2017**,		3
110	Overview of Single-Phase Grid-Connected Photovoltaic Systems **2017**, 41-66		3
109	Design for Reliability of Power Electronics in Renewable Energy Systems. *Green Energy and Technology*, **2014**, 295-338	0.6	3
108	Discontinuous Modulation for Improved Thermal Balance of Three-Level 1500-V Photovoltaic Inverters under Low-Voltage Ride-Through **2021**,		3
107	Nonlinear Sub-synchronous Oscillation Damping Controller for Direct-drive Wind Farms with VSC-HVDC Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	3
106	A Five-Level Common-Ground-T-Type Inverter for Solar Photovoltaic Applications **2020**,		3
105	Experimental validation of nine-level switched-capacitor inverter topology with high voltage gain. *International Journal of Circuit Theory and Applications*, **2021**, 49, 2479	2	3
104	Event-Triggering Virtual Inertia Control of PV Systems With Power Reserve. *IEEE Transactions on Industry Applications*, **2021**, 57, 4059-4070	4.3	3
103	Ultra-low inductance design for a GaN HEMT based 3L-ANPC inverter **2016**,		3
102	Challenges to grid synchronization of single-phase grid-connected inverters in Zero-Voltage Ride-Through Operation **2016**,		3
101	A synchronization scheme for single-phase grid-tied inverters under harmonic distortion and grid disturbances **2016**,		3
100	Thermal Performance Evaluation of 1500-VDC Photovoltaic Inverters Under Constant Power Generation Operation **2019**,		3
99	Leakage Current Mitigation in Transformerless Z-Source/Quasi-Z-Source PV Inverters: An Overview **2019**,		3
98	Finite Element Modeling of IGBT Modules to Explore the Correlation between Electric Parameters and Damage in Bond Wires **2019**,		3
97	Cost-Effective DC Current Suppression for Single-Phase Grid-Connected PV Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 1808-1823	5.6	3
96	Inductor Current Ripple Analysis and Reduction for Quasi-Z-Source Inverters With an Improved ZSVM6 Strategy. *IEEE Transactions on Power Electronics*, **2021**, 36, 7693-7704	7.2	3
95	Symmetrical Bipolar Output Isolated Four-Port Converters Based on Center-Tapped Winding for Bipolar DC Bus Applications. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	3
94	Modeling and Control of Single-Phase Quasi-Z-Source Inverters **2018**,		3

93	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters **2018**,		3
92	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 11339-11347	8.9	3
91	Single-Source Cascaded Multilevel Inverter With Voltage-Boost Submodule and Continuous Input Current for Photovoltaic Applications. *IEEE Transactions on Power Electronics*, **2022**, 37, 955-970	7.2	3
90	Capacitor Voltage Balancing for Multi-Level Dual-Active-Bridge DC-DC Converters. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	3
89	A Phase-Shifting MPPT Method to Mitigate Interharmonics from Cascaded H-Bridge PV Inverters **2020**,		2
88	Flexible Power Control of Photovoltaic Systems **2018**, 207-229		2
87	A general algorithm for flexible active power control of photovoltaic systems **2018**,		2
86	An Embedded Switched-Capacitor Z-Source Inverter with Continuous Input Currents **2019**,		2
85	An Improved Modulation Strategy for the Active Voltage Clamping HERIC Inverter **2019**,		2
84	Modeling Photovoltaic String in PLECS Under Partial Shading **2019**,		2
83	New High Voltage Gain DC-DC Converter Based on Modified Quasi Z-Source Network **2019**,		2
82	Robust design of LCL-filters for active damping in grid converters **2013**,		2
81	Unified digital periodic signal filters for power converter systems **2017**,		2
80	Common-mode voltage reduction of three-to-five phase indirect matrix converters with zero-current vector modulation **2017**,		2
79	A switched-capacitor based high conversion ratio converter for renewable energy applications: Principle and generation **2017**,		2
78	Advanced Grid Integration of Renewables Enabled by Power Electronics Technology **2015**, 3-9		2
77	A Preventive Maintenance Planning Approach for Wind Converters **2020**,		2
76	Impedance Network Impact on the Controller Design of the QZSI for PV Applications **2020**,		2

75	Fractional-Order Multi-Periodic Odd Harmonic Repetitive Control of Programmable AC Power Sources. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	2
74	A Series Interharmonic Filter for Cascaded H-bridge PV Inverters **2020**,		2
73	Improved Cascaded H-Bridge Multilevel Inverters with Voltage-Boosting Capability. *Electronics (Switzerland)*, **2021**, 10, 2801	2.6	2
72	The Closed-Loop Sideband Harmonic Suppression for CHB Inverter with Unbalanced Operation. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	2
71	Dynamic Stabilization of DC Microgrids using ANN-Based Model Predictive Control. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	2
70	System-Level Reliability Analysis of a Repairable Power Electronic-Based Power System Considering Non-Constant Failure Rates **2020**,		2
69	Common-Ground-Type Single-Source High Step-Up Cascaded Multilevel Inverter for Transformerless PV Applications. *Mathematics*, **2020**, 8, 1716	2.3	2
68	Distributed Control of Islanded Series PV-Battery-Hybrid Systems with Low Communication Burden **2020**,		2
67	Common-Mode Voltage Analysis and Reduction for the Quasi-Z-Source Inverter with a Split Inductor. *Applied Sciences (Switzerland)*, **2020**, 10, 8713	2.6	2
66	Addressing the unbalance loading issue in multi-drive systems with a DC-link modulation scheme for harmonic reduction **2016**,		2
65	A Comparative Study of Flexible Power Point Tracking Algorithms in Photovoltaic Systems **2019**,		2
64	Small-Signal Modeling and Dynamic Analysis of the Quasi-Z-Source Converter **2019**,		2
63	A Symmetrical Transformerless Hybrid Converter with Leakage Current Suppression **2019**,		2
62	PV system modeling, monitoring, and diagnosis **2019**, 45-74		2
61	Advanced control of PV systems under anomaly grid conditions **2019**, 113-152		2
60	A Condition of Equivalence Between Bus Injection and Branch Flow Models in Radial Networks. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 536-540	3.5	2
59	A Luenberger observer-based phase locked loop for single-phase systems under harmonic disturbances. *International Journal of Electrical Power and Energy Systems*, **2020**, 116, 105528	5.1	2
58	An equivalent model for sub-synchronous oscillation analysis in direct-drive wind farms with VSC-HVDC systems. *International Journal of Electrical Power and Energy Systems*, **2021**, 125, 106498	5.1	2

57	A Cascaded Half-Bridge Three-Level Inverter with An Inductive DC-Link for Flexible Voltage Boosting. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	2
56	Modified Modulation Techniques for Quasi-Z-Source Cascaded H-Bridge Inverters **2018**,		2
55	Advanced Power Electronic Converters and Power Quality Conditioning. *Journal of Electrical and Computer Engineering*, **2018**, 2018, 1-2	1.9	2
54	Digital Low-Pass-Filter-Based Single-Loop Damping for LCL-Filtered Grid-Tied Inverters **2018**,		2
53	An Embedded Enhanced-Boost Z-Source Inverter Topology with Fault-Tolerant Capabilities **2018**,		2
52	Reliability Assessment of PV Inverters with Battery Systems Considering PV Self-Consumption and Battery Sizing **2018**,		2
51	On Power Electronized Power Systems: Challenges and Solutions **2018**,		2
50	Model Predictive Control for Quasi-Z Source Inverters with Improved Thermal Performance **2018**,		2
49	A Single-Phase Common-Ground Five-Level Transformerless Inverter with Low Component Count for PV Applications. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	2
48	Mission profile-oriented reliability design in wind turbine and photovoltaic systems355-390		2
47	A Novel Methodology for Partial Shading Diagnosis Using the Electrical Parameters of Photovoltaic Strings. *IEEE Journal of Photovoltaics*, **2022**, 1-9	3.7	2
46	Critical Parameter Analysis and Design of the Quasi-Z-Source Inverter **2019**,		1
45	Characteristic Analysis of the Grid-Connected Impedance-Source Inverter for PV Applications **2019**,		1
44	**2015**,		1
43	Minimization of leakage ground current in transformerless single-phase full-bridge photovoltaic inverters **2015**,		1
42	Frequency adaptive repetitive control of grid-tied single-phase PV inverters **2015**,		1
41	Practical Submodule Capacitor Sizing for Modular Multilevel Converter Considering Grid Faults. *Applied Sciences (Switzerland)*, **2020**, 10, 3550	2.6	1
40	Stability Analysis and Improvement of Three-Phase Grid-Connected Power Converters with Virtual Inertia Control **2019**,		1

39	Introduction to Renewable Energy Systems. *Studies in Computational Intelligence*, **2014**, 3-40	0.8	1
38	A modified P&O MPPT control of photovoltaic systems **2011**,		1
37	A Delay-Based Frequency Estimation Scheme for Speed-Sensorless Control of Induction Motors. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	1
36	Hybrid Swapped Battery Charging and Logistics Dis-patch Model in Continuous Time Domain. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	1
35	High Step-Up/Down Switched-Capacitor Based Bidirectional DC-DC Converter **2020**,		1
34	Flexible Active Power Control of Distributed Photovoltaic Systems with Integrated Battery using Series Converter Configurations. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	1
33	Modulation of 2/3-Level Dual-Active-Bridge DC-DC Converters for Soft-Switching and Minimum Current Stress **2020**,		1
32	Adaptive Resilient Operation of Cooperative Grid-Forming Converters Under Cyber Attacks **2020**,		1
31	Optimal PV Generation Using Symbiotic Organisms Search Optimization Algorithm-Based MPPT **2020**,		1
30	Improved Model Predictive Control for Single-Phase Grid-Tied Inverter with Virtual Vectors in the Compacted Solution-Space. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
29	Fast Amplitude Estimation for Low-Voltage Ride-Through Operation of Single-Phase Systems. *IEEE Access*, **2020**, 8, 8477-8484	3.5	1
28	Li-ion-based Battery Pack Designing and Sizing for Electric Vehicles under Different Road Conditions **2020**,		1
27	A Simple Mismatch Mitigating Partial Power Processing Converter for Solar PV Modules. *Energies*, **2021**, 14, 2308	3.1	1
26	Speed-Sensorless Control of Induction Motor Drives with A Delay-Based Frequency Estimation Method **2021**,		1
25	Impact of the Circulating Current Control on Transient Submodule Voltage Stresses for Grid-Tied Modular Multilevel Converters During Grid Faults **2019**,		1
24	Control of PV systems under normal grid conditions **2019**, 75-112		1
23	Flexible active power control of PV systems **2019**, 153-185		1
22	Adequacy of the Single-Generator Equivalent Model for Stability Analysis in Wind Farms With VSC-HVDC Systems. *IEEE Transactions on Energy Conversion*, **2021**, 36, 907-918	5.4	1

21	. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	1
20	Impact of the Thermal-Interface-Material Thickness on IGBT Module Reliability in the Modular Multilevel Converter **2018**,		1
19	An Embedded Enhanced-Boost Z-Source Inverter **2018**,		1
18	Fractional-order time delay compensation in deadbeat control for power converters **2018**,		1
17	Applying Diode-Capacitor Voltage Multiplier to Coupled-Inductor Boost Converter for Novel DC-DC Converter with High Voltage Gain and Low Voltage Stress **2018**,		1
16	Transient Voltage Stress Modeling for Submodules of Modular Multilevel Converters under Grid Voltage Sags **2018**,		1
15	Multi-Timescale Control of Variable-Speed Wind Turbine for Inertia Provision. *Applied Sciences (Switzerland)*, **2022**, 12, 3263	2.6	1
14	Multi-stage stochastic programming for resilient integrated electricity and natural gas distribution systems against typhoon natural disaster attacks. *Renewable and Sustainable Energy Reviews*, **2022**, 159, 111784	16.2	1
13	Modified Impedance-Source Inverter with Continuous Input Currents and Fault-Tolerant Operations. *Energies*, **2020**, 13, 3408	3.1	0
12	Energy Efficiency Enhancement in Full-Bridge PV Inverters with Advanced Modulations. *E-Prime*, **2021**, 1, 100004		0
11	Reconfigurable Distributed Power Electronics Technique for Solar PV Systems. *Electronics (Switzerland)*, **2021**, 10, 1121	2.6	0
10	Resilience-Oriented Control for Cyber-Physical Hybrid Energy Storage Systems Using A Semi-Consensus Scheme: Design and Practice. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
9	Low voltage ride-through operation of single-phase PV systems **2021**, 471-498		0
8	An easy-implemented confidence filter for signal processing in the complex electromagnetic environment. *Microelectronics Reliability*, **2018**, 88-90, 225-229	1.2	0
7	Reliability Analysis of Power Components in Restructured DC/DC Converters. *IEEE Transactions on Device and Materials Reliability*, **2021**, 1-1	1.6	0
6	Power-Estimation-Based Synchronous Rectification Solution for Bidirectional DAB-LLC Converter. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	0
5	Hybrid transformerless PV converters with low leakage currents: Analysis and configuration. *IET Renewable Power Generation*, **2021**, 15, 368-381	2.9	0
4	Fast and Accurate Modeling of Power Converter Availability for Adequacy Assessment. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	0

3	Converters for Distributed Power Generation Systems **2015**, 1-14	
2	Integrated Optimization of Dual-Active-Bridge DC-DC Converter with ZVS for Battery Charging Applications. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6
1	Home Energy Management Systems: Operation and Resilience of Heuristics Against Cyberattacks. *IEEE Systems, Man, and Cybernetics Magazine*, **2022**, 8, 21-30	1.6