

# Zhen Xin

## List of Publications by Year in descending order

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1162  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Differential Compensated Air Coil Current Sensor for Switching Current Measurement of Power Devices. IEEE Transactions on Industrial Electronics, 2023, 70, 5356-5364.	7.9	4
2	Investigation of Off-State Stress Induced Degradation of SiC MOSFETs Under Short-Circuit Condition. IEEE Transactions on Industrial Electronics, 2023, 70, 5224-5234.	7.9	7
3	Current Ripple Prediction and DPWM Based Variable Switching Frequency Control for Full ZVS Range Two Parallel Interleaved Three-Phase Inverters. IEEE Transactions on Industrial Electronics, 2022, 69, 420-428.	7.9	13
4	A SiC and Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage Applications. IEEE Transactions on Industrial Electronics, 2022, 69, 7537-7548.	7.9	16
5	A Direct Carrier-Based Modulation Scheme With Full Index Range for DC-Link Current Ripple Mitigation of a Current Source Converter. IEEE Transactions on Industrial Electronics, 2022, 69, 452-462.	7.9	15
6	A SiC-Si Hybrid Module for Direct Matrix Converter With Mitigated Current Spikes. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3805-3817.	5.4	4
7	A Review of Megahertz Current Sensors for Megahertz Power Converters. IEEE Transactions on Power Electronics, 2022, 37, 6720-6738.	7.9	25
8	An Improved $di/dt$ -RCD Detection for Short-Circuit Protection of SiC mosfet. IEEE Transactions on Power Electronics, 2021, 36, 12-17.	7.9	23
9	Extended Wide-Bandwidth Rogowski Current Sensor With PCB Coil and Electronic Characteristic Shaper. IEEE Transactions on Power Electronics, 2021, 36, 29-33.	7.9	16
10	A Direct Carried-Based PWM Scheme With Reduced Switching Harmonics and Common-Mode Voltage for Current Source Converter. IEEE Transactions on Power Electronics, 2021, 36, 7783-7796.	7.9	13
11	A Generic Two-Stage Carried-Based PWM Scheme With Adjustable Switching Patterns for Current Source Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6033-6048.	5.4	3
12	Frequency-Locked Loop Based on a Repetitive Controller for Grid Synchronization Systems. IEEE Access, 2020, 8, 154861-154870.	4.2	12
13	A Review of Traditional Helical to Recent Miniaturized Printed Circuit Board Rogowski Coils for Power-Electronic Applications. IEEE Transactions on Power Electronics, 2020, 35, 12207-12222.	7.9	52
14	Structure and modelling of four-layer screenâ€returned PCB Rogowski coil with very few turns for high-bandwidth SiC current measurement. IET Power Electronics, 2020, 13, 765-775.	2.1	21
15	Differences Between Continuous Single-Phase and Online Three-Phase Power-Decoupled Converters. IEEE Transactions on Power Electronics, 2019, 34, 3487-3503.	7.9	8
16	Two Degrees of Freedom Power Decoupling Method for Single-Phase Split-Source Inverter. , 2019, , .		3
17	Review and reâ€evaluation of modulation techniques for neutralâ€pointâ€clamped inverters with high-order filters. IET Power Electronics, 2019, 12, 1307-1320.	2.1	9
18	Screen-Returned PCB Rogowski Coil for the Switch Current Measurement of SiC Devices. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	Large timeâ€delay decoupling and correction in synchronous complexâ€vector frame. IET Power Electronics, 2019, 12, 254-266.	2.1	12
20	Power Factor Correction and Harmonic Elimination for LCL-Filtered Three-Level Photovoltaic Inverter with Inverter-Side Current Control. , 2019, , .		5
21	Integrator Design of the Rogowski Current Sensor for Detecting Fast Switch Current of SiC Devices. , 2019, , .		13
22	Grid-Current Control of a Differential Boost Inverter With Hidden <i>LCL</i> Filters. IEEE Transactions on Power Electronics, 2019, 34, 889-903.	7.9	31
23	Mitigation of Grid-Current Distortion for LCL-Filtered Voltage-Source Inverter With Inverter-Current Feedback Control. IEEE Transactions on Power Electronics, 2018, 33, 6248-6261.	7.9	76
24	An Improved Three-Phase Voltage Source Converter With High-Performance Operation Under Unbalanced Conditions. IEEE Access, 2018, 6, 15908-15918.	4.2	15
25	Grid-Current-Feedback Control for LCL-Filtered Grid Converters With Enhanced Stability. IEEE Transactions on Power Electronics, 2017, 32, 3216-3228.	7.9	162
26	Active power decoupling methods for three-phase grid-connected converters under unbalanced grid conditions. , 2017, , .		3
27	High performance current control strategy for grid-connected boost DC-AC inverter. , 2017, , .		2
28	Unified digital periodic signal filters for power converter systems. , 2017, , .		2
29	A novel SVPWM method with periodically-balanced zero-sequence voltage impulse for three-phase three-level photovoltaic inverters. , 2017, , .		1
30	An Improved Flux Observer for Field-Oriented Control of Induction Motors Based on Dual Second-Order Generalized Integrator Frequency-Locked Loop. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 513-525.	5.4	85
31	A Novel Flux Estimator Based on Multiple Second-Order Generalized Integrators and Frequency-Locked Loop for Induction Motor Drives. IEEE Transactions on Power Electronics, 2017, 32, 6286-6296.	7.9	101
32	Re-Investigation of Generalized Integrator Based Filters From a First-Order-System Perspective. IEEE Access, 2016, 4, 7131-7144.	4.2	82
33	Extended stable boundary of LCL-filtered grid-connected inverter based on an improved grid-voltage feedforward control. , 2016, , .		6
34	Realization of quadrature signal generator using accurate magnitude integrator. , 2016, , .		3
35	A new second-order generalized integrator based quadrature signal generator with enhanced performance. , 2016, , .		18
36	A novel flux estimator based on SOGI with FLL for induction machine drives. , 2016, , .		6

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37	Inrush Transient Current analysis and suppression of photovoltaic grid-connected inverters during voltage sag. , 2016, , .		4
38	Four new applications of Second-Order Generalized Integrator Quadrature Signal Generator. , 2016, , .		7
39	An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. IEEE Transactions on Power Electronics, 2016, 31, 8068-8073.	7.9	213
40	Highly Accurate Derivatives for <i>LCL</i> -Filtered Grid Converter With Capacitor Voltage Active Damping. IEEE Transactions on Power Electronics, 2016, 31, 3612-3625.	7.9	190
41	Enhanced stability of capacitor-current feedback active damping for LCL-filtered grid converters. , 2015, , .		2
42	Realization of Digital Differentiator Using Generalized Integrator For Power Converters. IEEE Transactions on Power Electronics, 2015, 30, 6520-6523.	7.9	53
43	SOGI-based capacitor voltage feedback active damping in LCL-filtered grid converters. , 2015, , .		1