

Zhi-Xiang Zou

List of Publications by Year in descending order

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64
papers

1,789
citations

394286

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315616

38
g-index

64
all docs

64
docs citations

64
times ranked

1590
citing authors

#	ARTICLE	IF	CITATIONS
1	The Smart Transformer: Impact on the Electric Grid and Technology Challenges. IEEE Industrial Electronics Magazine, 2016, 10, 46-58.	2.3	322
2	Benchmarking of Grid Fault Modes in Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2013, 49, 2167-2176.	3.3	207
3	Frequency-Adaptive Fractional-Order Repetitive Control of Shunt Active Power Filters. IEEE Transactions on Industrial Electronics, 2015, 62, 1659-1668.	5.2	201
4	Modeling, Analysis, and Design of Multifunction Grid-Interfaced Inverters With Output LCL Filter. IEEE Transactions on Power Electronics, 2014, 29, 3830-3839.	5.4	110
5	Integrated demand response for a load serving entity in multi-energy market considering network constraints. Applied Energy, 2019, 250, 512-529.	5.1	92
6	Reverse Power Flow Control in a ST-Fed Distribution Grid. IEEE Transactions on Smart Grid, 2018, 9, 3811-3819.	6.2	77
7	Position Sensorless Control of Interleaved CSI Fed PMSM Drive With Extended Kalman Filter. IEEE Transactions on Magnetics, 2012, 48, 3688-3691.	1.2	61
8	Modeling Phase-Locked Loop-Based Synchronization in Grid-Interfaced Converters. IEEE Transactions on Energy Conversion, 2020, 35, 394-404.	3.7	43
9	Interleaved Operation of Two Neutral-Point-Clamped Inverters With Reduced Circulating Current. IEEE Transactions on Power Electronics, 2018, 33, 10122-10134.	5.4	40
10	Deadbeat Predictive Current Control-Based Fault-Tolerant Scheme for Dual Three-Phase PMSM Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1591-1604.	3.7	37
11	Analysis of the frequency-based control of a master/slave microgrid. IET Renewable Power Generation, 2016, 10, 1570-1576.	1.7	34
12	Smart Transformer-Fed Variable Frequency Distribution Grid. IEEE Transactions on Industrial Electronics, 2018, 65, 749-759.	5.2	34
13	Analysis and Stabilization of a Smart Transformer-Fed Grid. IEEE Transactions on Industrial Electronics, 2018, 65, 1325-1335.	5.2	32
14	A Generic Small-Signal Stability Criterion of DC Distribution Power System: Bus Node Impedance Criterion (BNIC). IEEE Transactions on Power Electronics, 2022, 37, 6116-6131.	5.4	29
15	Design and Control of a Photovoltaic Energy and SMES Hybrid System With Current-Source Grid Inverter. IEEE Transactions on Applied Superconductivity, 2013, 23, 5701505-5701505.	1.1	25
16	Grid Identification and Adaptive Voltage Control in a Smart Transformer-Fed Grid. IEEE Transactions on Power Electronics, 2019, 34, 2327-2338.	5.4	25
17	Design and Analysis of a HTS Flux-Switching Machine for Wind Energy Conversion. IEEE Transactions on Applied Superconductivity, 2013, 23, 5000904-5000904.	1.1	23
18	Fault-Tolerant Control of Common Electrical Faults in Dual Three-Phase PMSM Drives Fed by T-Type Three-Level Inverters. IEEE Transactions on Industry Applications, 2021, 57, 481-491.	3.3	22

#	ARTICLE	IF	CITATIONS
19	An Online Flux Estimation for Dual Three-Phase SPMSM Drives Using Position-Offset Injection. IEEE Transactions on Power Electronics, 2021, 36, 11606-11617.	5.4	22
20	Impedance-Based Stability Analysis Methods for DC Distribution Power System With Multivoltage Levels. IEEE Transactions on Power Electronics, 2021, 36, 9193-9208.	5.4	18
21	Benchmarking of Voltage Sag Generators. , 2012, , .		17
22	Smart transformer-based hybrid grid loads support in partial disconnection of MV/HV power system. , 2016, , .		17
23	Modeling of the Phase Detector of a Synchronous-Reference-Frame Phase-Locked Loop Based on Second-Order Approximation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2534-2545.	3.7	17
24	The Modular Current-Fed High-Frequency Isolated Matrix Converters for Wind Energy Conversion. IEEE Transactions on Power Electronics, 2022, 37, 4779-4791.	5.4	17
25	Modeling and Control of a Two-Bus System With Grid-Forming and Grid-Following Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7133-7149.	3.7	17
26	Stability analysis of synchronization of parallel power converters. , 2017, , .		16
27	Current-Fed Isolated Three-Phase Matrix-Type Grid Inverter With Soft-Switching Capability. IEEE Transactions on Industrial Electronics, 2022, 69, 3292-3302.	5.2	16
28	Interactions Between Two Phase-Locked Loop Synchronized Grid Converters. IEEE Transactions on Industry Applications, 2021, 57, 3935-3947.	3.3	16
29	Overload Control in Smart Transformer-Fed Grid. Applied Sciences (Switzerland), 2017, 7, 208.	1.3	13
30	Improved Harmonic Profile for High-Power PWM Current-Source Converters With Modified Space-Vector Modulation Schemes. IEEE Transactions on Power Electronics, 2021, 36, 11234-11244.	5.4	13
31	A Multi-Function Conversion Technique for Vehicle-to-Grid Applications. Energies, 2015, 8, 7638-7653.	1.6	12
32	Benchmarking of grid fault modes in single-phase grid-connected photovoltaic systems. , 2012, , .		11
33	Power active filter control based on a resonant disturbance observer. IET Power Electronics, 2015, 8, 554-564.	1.5	11
34	Voltage-Fed Isolated Matrix-Type AC/DC Converter for Wind Energy Conversion System. IEEE Transactions on Industrial Electronics, 2022, 69, 13056-13068.	5.2	11
35	Operation of SMES for the Current Source Inverter Fed Distributed Power System Under Islanding Mode. IEEE Transactions on Applied Superconductivity, 2013, 23, 5700404-5700404.	1.1	9
36	Voltage stability analysis using a complete model of grid-connected voltage-source converters. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
37	Stability Assessment of A Radial Grid With Power Converters. IEEE Open Journal of Power Electronics, 2022, 3, 61-74.	4.0	9
38	Resonance damping in a smart transformer-based microgrid. , 2015, , .		8
39	Frequency adaptive control of a smart transformer-fed distribution grid. , 2016, , .		8
40	Harmonic Optimization Strategy for CPS-PWM Based MMCs Under Submodule Capacitor Voltage Reduction Control. IEEE Transactions on Power Electronics, 2022, 37, 4288-4300.	5.4	8
41	Design and analysis of operating strategies for a generalised voltage-source power supply based on internal model principle. IET Power Electronics, 2014, 7, 330-339.	1.5	7
42	Robustness Analysis of Voltage Control Strategies of Smart Transformer. , 2018, , .		7
43	Voltage stability of wind power grid integration. , 2011, , .		6
44	Active power filter for harmonic compensation using a digital dual-mode-structure repetitive control approach. , 2012, , .		6
45	Study of Phase-Locked-Loop-Based Synchronization of Grid Inverter During Large Phase Jump. , 2018, , .		6
46	Operation of interleaved voltage-source-converter fed wind energy systems with asymmetrical faults in grid. , 2012, , .		5
47	Modeling and Stability Analysis of a Smart Transformer-Fed Grid. IEEE Access, 2020, 8, 91876-91885.	2.6	5
48	A modified P&O MPPT control of photovoltaic systems. , 2011, , .		4
49	Resonance identification and damping in AC-grids by means of multi MW grid converters. , 2016, , .		4
50	Parameter Sensitivity Analysis of SPC-based Control Under Different Grid Conditions. , 2018, , .		4
51	High-Frequency Harmonic Current Control of Power Converters. , 2019, , .		4
52	Stability Assessment of Voltage Control Strategies for Smart Transformer-Fed Distribution Grid. IEEE Access, 2020, 8, 185146-185157.	2.6	4
53	One-Step-Prediction Discrete Observer Based Frequency-Locked-Loop Technique for Three-Phase System. IEEE Access, 2021, 9, 95401-95411.	2.6	3
54	Analysis and Comparison of Three-Level ANPC With Different Commutation Modes. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
55	Collaborative Mid-Point Voltage Regulation in Low-Switching-Frequency MPC for Three-Level NPC Inverters Fed Dual Three-Phase PMSM Drives. IEEE Open Journal of Power Electronics, 2021, 2, 673-682.	4.0	3
56	Robust Control of Smart Transformer-fed Grid. , 2021, , .		3
57	Optimized modulation in parallel neutral-point clamped inverters for circulating current reduction: A space vector analysis. , 2017, , .		2
58	Analysis, design, and implementation of multifunction interfaced inverters for distributed generation. , 2013, , .		1
59	Interactions Between Phase-locked Loop Synchronized Grid Converters With Different Bandwidths and Power Ratings. , 2019, , .		1
60	Control and Stabilization of Grid-connected Converters Operating as Constant Power Load in a Smart Transformer Grid Scenario. , 2020, , .		1
61	Modeling and Stability Analysis of Converter-based Power Systems. , 2021, , .		1
62	Enhanced power quality control strategy for paralleled inverters in distributed generation. , 2013, , .		0
63	Smart Transformer requirements for integration in distribution grids and power quality improvement. , 2019, , .		0
64	State Feedback Control Based Seamless Switch Control for Microgrid Inverter. Applied Sciences (Switzerland), 2021, 11, 12114.	1.3	0