

# Hui Zhao

## List of Publications by Year in descending order

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46  
papers

1,147  
citations

567281

15  
h-index

642732

23  
g-index

46  
all docs

46  
docs citations

46  
times ranked

970  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Inductor-Based and Capacitor-Free Bipolar Pulse Converter with Overvoltage Protection. World Electric Vehicle Journal, 2022, 13, 91.	3.0	3
2	Dynamic Impedance Analysis of Intestinal Anastomosis during High-Frequency Electric Field Welding Process. Sensors, 2022, 22, 4101.	3.8	2
3	Quadrilateral Current Mode Paralleling of Power MOSFETs for Zero-Voltage Switching. IEEE Transactions on Power Electronics, 2021, 36, 5997-6014.	7.9	11
4	Energy conscious management for smart metro traction power supply system with 4G communication loop. Energy Reports, 2021, 7, 798-807.	5.1	7
5	Low-Frequency Medium Power Capacitor-Free Self-Resonant Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2021, 68, 10521-10533.	7.9	9
6	Enabling Resonant Commutated Pole in Parallel Power FET Bridge Legs. IEEE Transactions on Power Electronics, 2021, 36, 13389-13403.	7.9	4
7	QCM-Enabled SiC Three-Phase Traction Inverter. , 2021, , .		1
8	Thermal Modeling and Design Optimization of PCB Vias and Pads. IEEE Transactions on Power Electronics, 2020, 35, 882-900.	7.9	45
9	Prediction and Analysis of EMI Spectrum Based on the Operating Principle of EMC Spectrum Analyzers. IEEE Transactions on Power Electronics, 2020, 35, 263-275.	7.9	38
10	Common-Mode EMI Noise Analysis and Reduction for ACâ€“DCâ€“AC Systems With Paralleled Power Modules. IEEE Transactions on Power Electronics, 2020, 35, 6989-7000.	7.9	25
11	A Single- and Three-Phase Grid Compatible Converter for Electric Vehicle On-Board Chargers. IEEE Transactions on Power Electronics, 2020, 35, 7545-7562.	7.9	41
12	Near Magnetic Field Emission Analysis for IGBT and SiC Power Modules. , 2020, , .		8
13	Nanocrystalline Powder Cores for High-Power High-Frequency Applications. IEEE Transactions on Power Electronics, 2020, , 1-1.	7.9	26
14	Desynchronizing Paralleled GaN HEMTs to Reduce Light-Load Switching Loss. IEEE Transactions on Power Electronics, 2020, 35, 9151-9170.	7.9	14
15	Mixed Analogâ€“Digital (MAD) Converters for High Power Density DCâ€“DC Conversions. IEEE Transactions on Power Electronics, 2020, 35, 7742-7748.	7.9	4
16	Power Loss Characterization and Modeling for GaN-Based Hard-Switching Half-Bridges Considering Dynamic on-State Resistance. IEEE Transactions on Transportation Electrification, 2020, 6, 540-553.	7.8	40
17	Corrections to â€œPrediction and Analysis of EMI Spectrum Based on the Operating Principle of EMC Spectrum Analyzersâ€. IEEE Transactions on Power Electronics, 2020, 35, 5541-5541.	7.9	0
18	Critical Parameter Design for a Cascaded H-Bridge With Selective Harmonic Elimination/Compensation Based on Harmonic Envelope Analysis for Single-Phase Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 2914-2925.	7.9	24

#	ARTICLE	IF	CITATIONS
19	Design of CM Inductor Based on Core Loss for Radiated EMI Reduction in Power Converters. , 2019, , .		27
20	Measurement Techniques of Common Mode Currents, Voltages, and Impedances in a Flyback Converter for Radiated EMI Diagnosis. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1997-2005.	2.2	36
21	Two-Dimensional Thermal Modeling and Parametric Optimization of Printed Circuit Board Vias. , 2019, , .		4
22	Multi-Phase Input-Parallel Output-Parallel Dual Active Bridge with Inherent Current sharing and Optimized Integrated Transformer. , 2019, , .		1
23	A Current-Reference-Based Selective Harmonic Current Mitigation PWM Technique to Improve the Performance of Cascaded H-Bridge Multilevel Active Rectifiers. IEEE Transactions on Industrial Electronics, 2018, 65, 727-737.	7.9	86
24	Common-mode EMI Noise Modeling and Reduction using Balance Technique for AC-DC-AC Traction Systems with Paralleled Power Modules. , 2018, , .		0
25	A Universal DM/CM Physical Model for Power Transformer EMI Analysis within both Conducted and Radiated Frequency Ranges. , 2018, , .		11
26	A Technique to Accurately Predict EMI Noise Spectrum in Wide Frequency Ranges Based on the Principles of Spectrum Analyzers. , 2018, , .		1
27	The Parasitic Capacitance of Magnetic Components with Ferrite Cores Due to Time-Varying Electromagnetic (EM) Field. , 2018, , .		11
28	Modeling and Reduction of Radiated Common Mode Current in Flyback Converters. , 2018, , .		30
29	Measurement Techniques of CM Currents, Impedance and Voltages for Radiated EMI in Isolated Power Converters. , 2018, , .		11
30	Improve Control to Output Dynamic Response and Extend Modulation Index Range With Hybrid Selective Harmonic Current Mitigation-PWM and Phase-Shift PWM for Four-Quadrant Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 6854-6863.	7.9	23
31	A Four-Quadrant Modulation Technique to Extend Modulation Index Range for Multilevel Selective Harmonic Elimination/Compensation Using Staircase Waveforms. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 233-243.	5.4	20
32	Develop common-mode EMI noise models for AC-DC-AC traction systems. , 2017, , .		7
33	A SPWM technique with DC offset based on total energy reduction for both the harmonic and EMI noise suppression. , 2017, , .		3
34	Investigation of CCL filter for multilevel selective compensation (SHC) with staircase modulation. , 2017, , .		1
35	Systematic modeling for a three phase inverter with motor and long cable using optimization method. , 2016, , .		7
36	High efficiency, hybrid Selective Harmonic Elimination phase-shift PWM technique for Cascaded H-Bridge inverters to improve dynamic response and operate in complete normal modulation indices. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
37	A four-quadrant modulation technique for Cascaded Multilevel Inverters to extend solution range for Selective Harmonic Elimination / Compensation. , 2016, , .		2
38	A Real-Time Selective Harmonic Elimination Based on a Transient-Free Inner Closed-Loop Control for Cascaded Multilevel Inverters. IEEE Transactions on Power Electronics, 2016, 31, 1000-1014.	7.9	62
39	A real-time selective harmonic compensation (SHC) based on asymmetric switching angle modulation and current feedback control for cascaded modular multilevel inverters. , 2015, , .		8
40	Develop Parasitic Inductance Model for the Planar Busbar of an IGBT H Bridge in a Power Inverter. IEEE Transactions on Power Electronics, 2015, 30, 6924-6933.	7.9	26
41	Develop parasitic inductance model for the planar busbar of an IGBT H bridge in a power inverter. , 2014, , .		1
42	A real-time selective harmonic elimination based on a transient-free, inner closed-loop control for cascaded multilevel inverters. , 2014, , .		4
43	Active Power Decoupling for High-Power Single-Phase PWM Rectifiers. IEEE Transactions on Power Electronics, 2013, 28, 1308-1319.	7.9	382
44	A modified single-phase h-bridge PWM rectifier with power decoupling. , 2012, , .		11
45	DC-Link Active Power Filter for High-Power Single-Phase PWM Converters. Journal of Power Electronics, 2012, 12, 458-467.	1.5	31
46	Active DC-link power filter for single phase PWM rectifiers. , 2011, , .		24