

# Haoyu Wang

## List of Publications by Year in descending order

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89  
papers

2,069  
citations

279798

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docs citations

89  
times ranked

1389  
citing authors

#	ARTICLE	IF	CITATIONS
1	H5-Bridge-Based Single-Input“Dual-Output <i>LLC</i> Converter With Wide Output Voltage Range. IEEE Transactions on Industrial Electronics, 2022, 69, 7008-7018.	7.9	15
2	Universal Control Scheme to Achieve Seamless Dynamic Transition of Dual-Active-Bridge Converters Using Zero-Current-Prediction. IEEE Transactions on Industrial Electronics, 2022, 69, 5826-5834.	7.9	2
3	An H5-Bridge-Based Laddered \$CLLC\$ DCX With Variable DC Link for PEV Charging Applications. IEEE Transactions on Power Electronics, 2022, 37, 4249-4260.	7.9	10
4	Three-Port Power Electronic Interface With Decoupled Voltage Regulation and MPPT in Electromagnetic Energy Harvesting Systems. IEEE Transactions on Industry Applications, 2022, 58, 2144-2154.	4.9	10
5	Automatic Resonant Frequency Tracking Scheme for \$LLC\$ Resonant Converter Based on Adaptive Extended State Observer. , 2022, , .		2
6	Bidirectional Constant Current S2C Battery Equalizer Based on Fixed-Frequency L2C3 Resonant Converter. , 2022, , .		1
7	Online Capacitance Estimation Method in Buck Converters with Characteristic Frequency Injection for Optimal Sensitivity. , 2022, , .		1
8	A ZVS Pulsewidth Modulation Scheme for Active Class-E Rectifier Based IPT Systems. , 2022, , .		0
9	Light Load Efficiency Boost Technique for Switched Tank Converters Based on Hybrid ZVS-ZCS Control. , 2022, , .		0
10	An RLS Based Battery Modeling Method to Compensate for Recovery Effect in Battery Balancing. , 2022, , .		0
11	Temperature Sensorless Thermal Management Strategy for Interleaving Power Converters. , 2022, , .		1
12	A Novel Driving Scheme for Inductive Power Transfer Systems Using Decoupled Transmitter Coils. , 2022, , .		1
13	Phase-Shift Modulated Interleaved <i>LLC</i> Converter With Ultrawide Output Voltage Range. IEEE Transactions on Power Electronics, 2021, 36, 493-503.	7.9	35
14	A Hybrid-Bridge and Hybrid Modulation-Based Dual-Active-Bridge Converter Adapted to Wide Voltage Range. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 910-920.	5.4	22
15	An Ultrawide Output Range \$LLC\$ Resonant Converter Based on Adjustable Turns Ratio Transformer and Reconfigurable Bridge. IEEE Transactions on Industrial Electronics, 2021, 68, 7115-7124.	7.9	24
16	ViPSN: A Vibration-Powered IoT Platform. IEEE Internet of Things Journal, 2021, 8, 1728-1739.	8.7	34
17	An LCC Based String-to-Cell Battery Equalizer with Simplified Constant Current Control. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	22
18	Coupling Coefficient and Load Estimation for Wireless Power Transfer Systems with Transmitter Side Input Current. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
19	A Fully ZVS Dual-Active-Bridge Based Three-Port Converter with High Integration. , 2021, , .		1
20	Reduced-Order Model for Inductive Power Transfer Systems. , 2021, , .		1
21	A Self-Sensing Synchronous Electric Charge Extraction (SECE) Solution for Piezoelectric Energy Harvesting Enhancement. , 2021, , .		2
22	Light-Load Performance Enhancement Technique for <i>LLC</i> -Based PEV Charger Through Circuit Reconfiguration. IEEE Transactions on Transportation Electrification, 2021, 7, 2104-2113.	7.8	18
23	Dynamic State Estimation Enabled Health Indicator for Parametric Fault Detection in Switching Power Converters. IEEE Access, 2021, 9, 33224-33234.	4.2	7
24	A Bidirectional Cell-to-Buffer Battery Equalizer at Boundary Conduction Mode with Constant On-Time Control. , 2021, , .		3
25	Design Methodology to Reduce the Lumped Winding Capacitance of Spiral Winding Transformer in LLC converters. , 2021, , .		0
26	A Merged H-Bridge Based Switched Tank Converter for Front-End Voltage Regulator Modules. , 2021, , .		1
27	A SiC-Based Highly Integrated Bidirectional AC/DC Converter for PEV Charging Applications. , 2021, , .		1
28	An Interleaved Secondary-Side Modulated LLC Resonant Converter for Wide Output Range Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 1124-1135.	7.9	42
29	An <i>LLC</i> -Based Highly Efficient S2M and C2C Hybrid Hierarchical Battery Equalizer. IEEE Transactions on Power Electronics, 2020, 35, 5928-5937.	7.9	25
30	Optimal Sizing and Energy Management for Cost-Effective PEV Hybrid Energy Storage Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 3407-3416.	11.3	52
31	An H5-Bridge-Based Asymmetric <i>LLC</i> Resonant Converter With an Ultrawide Output Voltage Range. IEEE Transactions on Industrial Electronics, 2020, 67, 9503-9514.	7.9	20
32	An Induced Voltage Source Model for Capacitive Power Transfer. , 2020, , .		3
33	A String-to-Cell Battery Equalizer Based on Fixed-Frequency LCC Resonant Converter. , 2020, , .		6
34	Five-level one-capacitor boost multilevel inverter. IET Power Electronics, 2020, 13, 2245-2251.	2.1	17
35	A Seven-Level Boost Inverter for Medium Power PV Applications. , 2020, , .		1
36	Optimal Design of H5 Bridge Based LLC Converter with Ultra-Wide Input Voltage Range and Synchronous Rectification. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
37	An Adjustable Turns Ratio Transformer Based LLC Converter for Deeply-depleted PEV Charging Applications. , 2020, , .		4
38	An Improved Finite Control Set-MPC-Based Power Sharing Control Strategy for Islanded AC Microgrids. IEEE Access, 2020, 8, 52676-52686.	4.2	32
39	A three-port power electronic interface to harvest the maximum power in electromagnetic energy harvesting systems. , 2020, , .		2
40	Power Solutions of A Vibration-Powered Sensor Node. , 2020, , .		4
41	A Novel Dual-Input ZVS DC/DC Converter for Low-Power Energy Harvesting Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1197-1206.	5.4	22
42	Decomposition and Synthesis of High-Order Compensated Inductive Power Transfer Systems for Improved Output Controllability. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4514-4523.	4.6	30
43	Design Considerations of Efficiency Enhanced <i>LLC</i> PEV Charger Using Reconfigurable Transformer. IEEE Transactions on Vehicular Technology, 2019, 68, 8642-8651.	6.3	35
44	Analysis and Design Considerations of Efficiency Enhanced Hierarchical Battery Equalizer Based on Bipolar CCM Buck&€“Boost Units. IEEE Transactions on Industry Applications, 2019, 55, 4053-4063.	4.9	54
45	A Highly Efficient Multifunctional Power Electronic Interface for PEV Hybrid Energy Management Systems. IEEE Access, 2019, 7, 8964-8974.	4.2	21
46	Multi-Objective Optimization-Based Real-Time Control Strategy for Battery/Ultracapacitor Hybrid Energy Management Systems. IEEE Access, 2019, 7, 11640-11650.	4.2	44
47	A ZVS Three-Port DC/DC Converter for High-Voltage Bus-Based Photovoltaic Systems. IEEE Transactions on Power Electronics, 2019, 34, 10688-10699.	7.9	42
48	Hybrid Modulated Reconfigurable Bidirectional CLLC Converter for V2G Enabled PEV Charging Applications. , 2019, , .		9
49	A Wide Gain Range LLC Resonant Converter Based on Reconfigurable Bridge and Asymmetric Resonant Tanks. , 2019, , .		8
50	Fixed Frequency Phase Shift Modulated LLC Resonant Converter Adapted to Ultra Wide Output Voltage Range. , 2019, , .		16
51	Series Synchronized Triple Bias-Flip (S-S3BF) Interface Circuit for Piezoelectric Energy Harvesting. , 2019, , .		7
52	Model Based Parametric Fault Detection in Power Electronic Circuits. , 2019, , .		1
53	Hybrid Modulated Bidirectional Resonant DC/DC Converter for High-Voltage Bus-Based Energy Storage Systems. , 2019, , .		3
54	A Five-Switch Bridge Based Reconfigurable <i>LLC</i> Converter for Deeply Depleted PEV Charging Applications. IEEE Transactions on Power Electronics, 2019, 34, 4031-4035.	7.9	35

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55	A Novel Soft-Switching Secondary-Side Modulated Multioutput DC-DC Converter With Extended ZVS Range. IEEE Transactions on Power Electronics, 2019, 34, 106-116.	7.9	17
56	A PWM LLC Type Resonant Converter Adapted to Wide Output Range in PEV Charging Applications. IEEE Transactions on Power Electronics, 2018, 33, 3791-3801.	7.9	198
57	Reconfigurable LLC Topology With Squeezed Frequency Span for High-Voltage Bus-Based Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 3688-3692.	7.9	47
58	Wide Voltage Gain Range LLC DC/DC Topologies: State-of-the-Art. , 2018, , .		51
59	An Integrated Three-Port DC/DC Converter for High-Voltage Bus Based Photovoltaic Systems. , 2018, , .		2
60	A Hierarchical ZVS Battery Equalizer Based on Bipolar CCM Buck-Boost Units. , 2018, , .		3
61	A Voltage Quadrupler Rectifier Based Pulsewidth Modulated LLC Converter With Wide Output Range. IEEE Transactions on Industry Applications, 2018, 54, 6159-6168.	4.9	46
62	Multi-objective optimization based real-time control for PEV hybrid energy management systems. , 2018, , .		5
63	A LLC type resonant converter based on PWM voltage quadrupler rectifier with wide output voltage. , 2017, , .		6
64	Modeling, analysis and design of a dual-input ZVS DC/DC converter. , 2017, , .		4
65	Design of a secondary side regulated LLC based integrated PEV onboard charger with full ZVS range. , 2017, , .		3
66	Coupled inductor based ZVS high step-up DC/DC converter in photovoltaic applications. , 2017, , .		9
67	A PSFB-Based Integrated PEV Onboard Charger With Extended ZVS Range and Zero Duty Cycle Loss. IEEE Transactions on Industry Applications, 2017, 53, 585-595.	4.9	49
68	A SiC-Based High-Efficiency Isolated Onboard PEV Charger With Ultrawide DC-Link Voltage Range. IEEE Transactions on Industry Applications, 2017, 53, 501-511.	4.9	100
69	A Discontinuous Conduction Mode Single-Stage Step-Up Rectifier for Low-Voltage Energy Harvesting Applications. IEEE Transactions on Power Electronics, 2017, 32, 6161-6169.	7.9	27
70	LLC converter with reconfigurable voltage multiplier rectifier for high voltage and wide output range applications. , 2017, , .		7
71	Three-port bidirectional CLLC resonant converter based onboard charger for PEV hybrid energy management system. , 2017, , .		13
72	A ZVS integrated single-input-dual-output DC/DC converter for high step-up applications. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
73	A single stage AC/DC converter for low voltage energy harvesting. , 2016, , .		3
74	Interleaved SEPIC Power Factor Preregulator Using Coupled Inductors In Discontinuous Conduction Mode With Wide Output Voltage. IEEE Transactions on Industry Applications, 2016, 52, 3461-3471.	4.9	60
75	A phase shift full bridge based reconfigurable PEV onboard charger with extended ZVS range and zero duty cycle loss. , 2016, , .		4
76	A pulse width modulated LLC type resonant topology adapted to wide output voltage range. , 2016, , .		4
77	Comparative analysis of high step-down ratio isolated DC/DC topologies in PEV applications. , 2016, , .		11
78	Interleaved SEPIC PFC converter using coupled inductors in PEV battery charging applications. , 2015, , .		17
79	A hybrid ZVS resonant converter with reduced circulating current and improved voltage regulation performance. , 2015, , .		2
80	Design and Analysis of a Full-Bridge LLC-Based PEV Charger Optimized for Wide Battery Voltage Range. IEEE Transactions on Vehicular Technology, 2014, 63, 1603-1613.	6.3	216
81	A novel approach to design EV battery chargers using SEPIC PFC stage and optimal operating point tracking technique for LLC converter. , 2014, , .		41
82	Design of a phase-shifted ZVS full-bridge front-end DC/DC converter for fuel cell inverter applications. , 2014, , .		2
83	Maximum Efficiency Point Tracking Technique for $\text{LLC}$ -Based PEV Chargers Through Variable DC Link Control. IEEE Transactions on Industrial Electronics, 2014, 61, 6041-6049.	7.9	155
84	Transportation Electrification: Conductive charging of electrified vehicles. IEEE Electrification Magazine, 2013, 1, 46-58.	1.8	27
85	Comprehensive topological analyses of isolated resonant converters in PEV battery charging applications. , 2013, , .		45
86	A Bridgeless Boost Rectifier for Low-Voltage Energy Harvesting Applications. IEEE Transactions on Power Electronics, 2013, 28, 5206-5214.	7.9	94
87	Design considerations for a level-2 on-board PEV charger based on interleaved boost PFC and LLC resonant converters. , 2013, , .		25
88	A Review of Fabrication Options and Power Electronics for Flapping-Wing Robotic Insects. International Journal of Advanced Robotic Systems, 2013, 10, 151.	2.1	11
89	A composite CMOS pair and an adjoint. , 2010, , .		0