

Yijie Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	1,441 citations	21 h-index	33 g-index
151 ext. papers	1,951 ext. citations	5.7 avg, IF	5.35 L-index

#	Paper	IF	Citations
102	Analysis and Design of a Modular Switched Capacitor Converter with Adjustable Output Voltage in DC Microgrid. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2022 , 1-1	5.2	
101	Simultaneous Wireless Power and Data Transfer: A Comprehensive Review. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 3650-3667	7.2	6
100	Analysis and Design of a Two-Phase Series Capacitor Dual-Path Hybrid DC-DC Converter. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
99	Guest Editorial Special Issue on Advanced and Emerging Technologies of High-efficiency and Long-distance Wireless Power Transfer Systems. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	
98	A Multi-segment Compensation Method for Improving Power Density of Long-distance IPT System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
97	Analysis, Design and Optimization of the IPT System with LC Filter Rectifier Featuring High Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
96	Typical Multi-MHz DCDC Converter. <i>CPSS Power Electronics Series</i> , 2021 , 55-72	0.1	
95	A Soft-Switching Transformer-Less Step-Down Converter Based on Resonant Current Balance Module. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8206-8218	7.2	2
94	Analytical Derivation and Design of 20-MHz DCDC Soft-Switching Resonant Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 210-221	8.9	12
93	Analysis and Design of a Simultaneous Wireless Power and Data Transfer System Featuring High Data Rate and Signal-to-Noise Ratio. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10761-10771	8.9	4
92	Analysis and Design of High-Misalignment-Tolerant Compensation Topologies With Constant-Current or Constant-Voltage Output for IPT Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2685-2695	7.2	18
91	Design and Optimization of an Electric Vehicle Wireless Charging System Using Interleaved Boost Converter and Flat Solenoid Coupler. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3894-3908	7.2	13
90	High-Misalignment Tolerant IPT Systems with Solenoid and Double D pads. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
89	Improved Winding and Compensation Methods for the Multi-layer Coil in IPT System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
88	A DCM High Frequency High Step Up SEPIC-Based Converter with Extended ZVS Range. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
87	A Three-Stage-Five-Coil IPT System Based on Cylindrical Solenoid Coupler Applied to State Detection Equipment of HV Device. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
86	High-Efficiency High-Order CL-LLC DC/DC Converter With Wide Input Voltage Range. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10383-10394	7.2	1

85	Analysis and Design of a Nonisolated Bidirectional DCDC Converter Based on CLC Network. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 481-490	2.6	
84	. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 399-408	2.6	
83	Analysis and Design of a High-Frequency Low-Profile Converter for Bendable Equipment. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 12834-12842	7.2	
82	Capacitance Reduction in Flicker-Free Integrated Offline LED Drivers. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11992-12001	8.9	1
81	Impedance Analysis and Design of IPT System to Improve System Efficiency and Reduce Output Voltage or Current Fluctuations. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 14029-14038	7.2	5
80	A 10 MHz DC/DC Converter With Zero-Phase Difference Synchronous Driving Signal. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13878-13888	7.2	
79	Analysis and Design of Cubic Magnetic Coupler for High Distance-to-Diameter Ratio IPT Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	10
78	Analysis and Design of an IPT System Based on S/SP Compensation With Improved Output Voltage Regulation. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3256-3266	11.9	12
77	Review of very high frequency power converters and related technologies. <i>IET Power Electronics</i> , 2020 , 13, 1711-1721	2.2	6
76	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10444-10454	7.2	6
75	Novel High Step-Up Soft-Switching DCDC Converter Based on Switched Capacitor and Coupled Inductor. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9471-9481	7.2	21
74	An FDM-Based Simultaneous Wireless Power and Data Transfer System Functioning With High-Rate Full-Duplex Communication. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6370-6381	11.9	15
73	A Particle Swarm Optimization (PSO)-based Tuning Method for LC/CL-compensated Capacitive Power Transfer Systems 2020 ,		1
72	An Optimization Control Method for Instantaneous Current Suppression of Dual Buck LED Driver 2020 ,		1
71	Crossed flat solenoid coupler for stationary electric vehicle wireless charging featuring high misalignment tolerance. <i>IET Electric Power Applications</i> , 2020 , 14, 2648-2658	1.8	0
70	Analysis and Design of a Class E Type High Frequency DCDC Converter Based on Resonant Driving Circuit. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 138-147	3.6	2
69	A review of high frequency resonant DC-DC power converters: Topologies and planar magnetic technologies. <i>Science China Technological Sciences</i> , 2020 , 63, 1335-1347	3.5	1
68	A Novel AC/DC Converter Based on Stacked Boost Circuit and Dual-Mode LLC Circuit. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6576-6585	4.3	3

67	A Review of High Frequency Power Converters and Related Technologies. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 247-260	3.6	10
66	A 20 MHz Low-Profile DCDC Converter With Magnetic-Free Characteristics. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1555-1567	8.9	11
65	A High Step Up SEPIC-Based Converter Based on Partly Interleaved Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1455-1465	8.9	14
64	High and Very High Frequency Power Supplies for Industrial Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1400-1404	8.9	4
63	A High-Frequency High Voltage Gain Modified SEPIC With Integrated Inductors. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7481-7490	4.3	7
62	Soft-Switching Bidirectional DC/DC Converter With an LCLC Resonant Circuit. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 851-864	5.6	13
61	A Novel Single Switch High-Frequency DC/DC Converter and Its Mathematical Model. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3877-3888	4.3	4
60	A Single-Stage LED Driver Based on Half-Bridge $\$CLCL\$$ Resonant Converter and BuckBoost Circuit. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 196-208	5.6	15
59	A Single Switch Quadratic Boost High Step Up DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4387-4397	8.9	64
58	A High-Performance Impedance-Source Converter With Switched Inductor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3384-3396	7.2	11
57	A Novel Unsymmetrical Coupling Structure Based on Concentrated Magnetic Flux for High-Misalignment IPT Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3110-3123	7.2	27
56	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3422-3426	8.9	13
55	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5445-5454	4.3	5
54	Analysis, design and evaluation of a zero-voltage-switching non-resonant converter for IPT applications. <i>IET Power Electronics</i> , 2019 , 12, 2599-2607	2.2	
53	Design of a Constant-voltage Output Wireless Power Transfer Device 2019 ,		2
52	Design of a Wireless Power Transfer System Based on Dual-Class E Self-Resonant Synchronous Rectifier 2019 ,		1
51	Bidirectional DC-DC Converter based on CLC network 2019 ,		1
50	Efficiency-based design optimisation of a double-sided LCL compensated wireless power transfer system. <i>IET Power Electronics</i> , 2019 , 12, 2436-2446	2.2	4

49	A Comparison Study between Flat Solenoid Coupler and Planar Square Coupler for WPT Systems 2019 ,		2
48	A High-Performance Isolated High-Frequency Converter With Optimal Switch Impedance. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5165-5176	8.9	7
47	Analysis, Design, and Implementation of a Wireless Power and Data Transmission System Using Capacitive Coupling and Double-Sided LCC Compensation Topology. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 541-551	4.3	28
46	Modified SEPIC Converter With High Voltage Gain and ZVS Characteristics. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 1860-1864	3.5	2
45	A Single-Stage LED Driver Based on Flyback and Modified Class-E Resonant Converters With Low-Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8463-8473	8.9	21
44	Particle Swarm Optimization-Based Parameter Design Method for S/CLC-Compensated IPT Systems Featuring High Tolerance to Misalignment and Load Variation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5268-5282	7.2	30
43	A Family of Y-Source DC/DC Converter Based on Switched Inductor. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1587-1597	4.3	14
42	Single-Stage Bridgeless LED Driver Based on a CLCL Resonant Converter. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1832-1841	4.3	23
41	Analysis and Design of a 1-MHz Single-Switch DCDC Converter With Small Winding Resistance. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7805-7817	8.9	7
40	A Temperature-Dependent SiC MOSFET Modeling Method Based on MATLAB/Simulink. <i>IEEE Access</i> , 2018 , 6, 4497-4505	3.5	15
39	Analysis of Frequency Characteristics of the Half-Bridge CLCL Converter and Derivative Topologies. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7741-7752	8.9	8
38	Research on the Parameter Optimization of Electronic Ballast for UV-Lamps Considering Its Lifetime and UVC Irradiance. <i>IEEE Access</i> , 2018 , 6, 11931-11939	3.5	4
37	A Two-Stage Quasi-Resonant Dual-Buck LED Driver With Digital Control Method. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 787-795	4.3	14
36	A Single-Stage LED Driver With High-Performance Primary-Side-Regulated Characteristic. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 76-80	3.5	15
35	An LC/S Compensation Topology and Coil Design Technique for Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2007-2025	7.2	97
34	A High-Frequency CLCL Converter Based on Leakage Inductance and Variable Width Winding Planar Magnetics. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 280-290	8.9	20
33	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 926-931	7.2	7
32	Analysis and Design of an S/SP Compensated IPT System to Minimize Output Voltage Fluctuation Versus Coupling Coefficient and Load Variation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 9262-9272	6.8	35

31	Soft-switching Characteristics Analysis Based on LLC Resonant Converter 2018 ,		2
30	Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 767-777	7.6	23
29	LC/CL compensation topology and efficiency-based optimisation method for wireless power transfer. <i>IET Power Electronics</i> , 2018 , 11, 1029-1037	2.2	19
28	A Novel Parameter Tuning Method for a Double-Sided LCL Compensated WPT System With Better Comprehensive Performance. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8525-8536	7.2	65
27	Analysis and Design of High-Frequency Converter With Resistive Matching Network and Spiral Inductor. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5062-5075	7.2	9
26	A High Frequency High Voltage Gain Coupled-Inductor Boost Circuit based on Planar Component 2018 ,		2
25	Analysis of Low Frequency Ripple Transmission in LED Drivers 2018 ,		1
24	Modified parameter tuning method for LCL/P compensation topology featured with load-independent and LCT-unconstrained output current. <i>IET Power Electronics</i> , 2018 , 11, 1483-1491	2.2	12
23	A half-bridge resonant DC/DC converter with satisfactory soft-switching characteristics. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 120-132	2	3
22	A 1 MHz Half-Bridge Resonant DC/DC Converter Based on GaN FETs and Planar Magnetics. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2876-2891	7.2	42
21	S/CLC Compensation Topology Analysis and Circular Coil Design for Wireless Power Transfer. <i>IEEE Transactions on Transportation Electrification</i> , 2017 , 3, 496-507	7.6	61
20	A Review of LED Drivers and Related Technologies. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5754-5765	8.9	100
19	Analysis and Design of a High-Frequency DC/DC Converter Based on a Resonant Rectifier. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8492-8503	8.9	12
18	SPICE Modeling of Variable Inductors and Its Application to Single Inductor LED Driver Design. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5894-5903	8.9	23
17	High-efficiency magnetic coupling resonant wireless power transfer system with class-e amplifier and class-e rectifier 2017 ,		3
16	A Double-T-Type Compensation Network and Its Tuning Method for IPT System. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4757-4767	4.3	15
15	A Single-Stage LED Driver Based on SEPIC and LLC Circuits. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5766-5776	8.9	39
14	Single-stage QR ACDC converter based on buckBoost and flyback circuits. <i>IET Power Electronics</i> , 2017 , 10, 103-111	2.2	8

13	A dynamic wireless power transfer system with parallel transmitters 2017 ,		5
12	Analysis and design of an LCC/S compensated resonant converter for inductively coupled power transfer 2017 ,		11
11	A novel modulation and demodulation method for wireless power and data transmission 2017 ,		2
10	A Single-Stage LED Driver Based on Double LLC Resonant Tanks for Automobile Headlight With Digital Control. <i>IEEE Transactions on Transportation Electrification</i> , 2016 , 2, 357-368	7.6	28
9	A Single-Stage Single-Switch LED Driver Based on Class-E Converter. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 2618-2626	4.3	36
8	A CLCL Resonant DC/DC Converter for Two-Stage LED Driver System. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2883-2891	8.9	63
7	A Single-Stage Single-Switch LED Driver Based on the Integrated SEPIC Circuit and Class-E Converter. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5814-5824	7.2	37
6	Analysis and design of planar inductor and transformer for resonant converter 2016 ,		4
5	A Single-Stage LED Driver Based on Interleaved BuckBoost Circuit and LLC Resonant Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 732-741	5.6	55
4	. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3065-3076	7.2	2
3	Single-stage LED driver with low bus voltage. <i>Electronics Letters</i> , 2013 , 49, 455-457	1.1	21
2	Electronic Ballast for Metal Halide Lamps Using a Quasi-Resonant Inverter With Digital Control. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 1825-1840	8.9	8
1	Dimmable Electronic Ballast for 250W HPS Lamp in Street Lighting with Analog Dimming Interface Circuit. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		6