

# Hongchang Li

## List of Publications by Year in descending order

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48  
papers

2,752  
citations

471371

17  
h-index

610775

24  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2181  
citing authors

#	ARTICLE	IF	CITATIONS
1	PDM-Based Feedforward Power Compensation for FMPSK Communication in WPT Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2241-2245.	2.2	1
2	Operating area analysis and design of WPT systems with MEPT control. Journal of Power Electronics, 2022, 22, 702-710.	0.9	1
3	Frequency-Modulated Phase Shift Keying Communication for MEPT Control of Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 4954-4959.	5.4	14
4	Characterization and Modeling of Frequency-Dependent On-Resistance for GaN Devices at High Frequencies. IEEE Transactions on Power Electronics, 2020, 35, 4925-4933.	5.4	14
5	Controlling the Phase Angle in LCC-S IPT for Information Feedback. , 2020, , .		0
6	An Operation Mode Selection Method of Dual-Side Bridge Converters for Efficiency Optimization in Inductive Power Transfer. IEEE Transactions on Power Electronics, 2020, 35, 9992-9997.	5.4	26
7	Extending the Operating Region of Inductive Power Transfer Systems Through Dual-Side Cooperative Control. IEEE Transactions on Industrial Electronics, 2020, 67, 9302-9312.	5.2	14
8	A Dual Phase Shedding Method for the Improvement of Efficiency and Reduction of Regulating Requirements in Series-series Inductive Power Transfer. , 2020, , .		2
9	Efficiency Analysis of LCC-S and S-S Inductive Power Transfer Considering Switching Device and Component Losses. , 2020, , .		4
10	Stability Analysis and Improvement of Three-Phase Grid-Connected Power Converters with Virtual Inertia Control. , 2019, , .		1
11	Dynamic Phasor-Based Reduced-Order Models of Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2019, 34, 11361-11370.	5.4	25
12	Frequency Derivative-Based Inertia Enhancement by Grid-Connected Power Converters With a Frequency-Locked-Loop. IEEE Transactions on Smart Grid, 2019, 10, 4918-4927.	6.2	100
13	An Isolated Capacitor-Compensated Current Sensing Method for High-Frequency Resonant Converters. IEEE Transactions on Power Electronics, 2019, 34, 6009-6013.	5.4	6
14	A Low-Subharmonic, Full-Range, and Rapid Pulse Density Modulation Strategy for ZVS Full-Bridge Converters. IEEE Transactions on Power Electronics, 2019, 34, 8871-8881.	5.4	29
15	On the Inertia of Future More-Electronics Power Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2130-2146.	3.7	360
16	An Improved Virtual Inertia Control for Three-Phase Voltage Source Converters Connected to a Weak Grid. IEEE Transactions on Power Electronics, 2019, 34, 8660-8670.	5.4	103
17	Pulse Density Modulated ZVS Full-Bridge Converters for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2019, 34, 369-377.	5.4	104
18	Distributed Power System Virtual Inertia Implemented by Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 8488-8499.	5.4	356

#	ARTICLE	IF	CITATIONS
19	Power management of virtual synchronous generators through using hybrid energy storage systems. , 2018, , .		7
20	A burst mode pulse density modulation scheme for inductive power transfer systems without communication modules. , 2018, , .		8
21	Design of virtual synchronous generators with enhanced frequency regulation and reduced voltage distortions. , 2018, , .		19
22	A pulse density modulation method for ZVS full-bridge converters in wireless power transfer systems. , 2018, , .		1
23	A High-Bandwidth Integrated Current Measurement for Detecting Switching Current of Fast GaN Devices. IEEE Transactions on Power Electronics, 2018, 33, 6199-6210.	5.4	58
24	A Battery/Ultracapacitor Hybrid Energy Storage System for Implementing the Power Management of Virtual Synchronous Generators. IEEE Transactions on Power Electronics, 2018, 33, 2820-2824.	5.4	301
25	Stability Improvement for Three-Phase Grid-Connected Converters Through Impedance Reshaping in Quadrature-Axis. IEEE Transactions on Power Electronics, 2018, 33, 8365-8375.	5.4	117
26	Pulse Density Modulation for Maximum Efficiency Point Tracking of Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2018, 33, 5492-5501.	5.4	139
27	Synchronous Rectification-Based Phase Shift Keying Communication for Wireless Power Transfer Systems. , 2018, , .		7
28	Reshaping Quadrature-Axis Impedance of Three-Phase Grid-Connected Converters for Low-Frequency Stability Improvement. , 2018, , .		4
29	Reduced-Order Dynamical Models of Tuned Wireless Power Transfer Systems. , 2018, , .		3
30	A Monotonic Output Regulation Method for Series-Series Compensated Inductive Power Transfer Systems with Improved Efficiency and Communication-Less Control. , 2018, , .		5
31	The Role of Power Electronics in Future Low Inertia Power Systems. , 2018, , .		24
32	Modeling the dynamics of wireless power transfer using a generalized average model of high-Q resonators. , 2018, , .		2
33	Delta-sigma modulation for maximum efficiency point tracking of wireless power transfer systems. , 2017, , .		0
34	High frequency conducted EMI modeling of a series-series resonant WPT system. , 2017, , .		1
35	A Multiloop Method for Minimization of Parasitic Inductance in GaN-Based High-Frequency DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 4728-4740.	5.4	104
36	A Magnetic Integrated LLCL Filter for Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2017, 32, 1725-1730.	5.4	60

#	ARTICLE	IF	CITATIONS
37	System frequency regulation in Singapore using distributed energy storage systems. , 2017, , .		10
38	Improved virtual capacitive droop control for hybridization of energy storages in DC microgrid. , 2016, , .		1
39	An improved switching loss model for a 650V enhancement-mode GaN transistor. , 2016, , .		18
40	Analysis and control of post regulation of wireless power transfer systems. , 2016, , .		11
41	Fully Mechanically Controlled Automated Electron Microscopic Tomography. Scientific Reports, 2016, 6, 29231.	1.6	19
42	An Analytical Switching Process Model of Low-Voltage eGaN HEMTs for Loss Calculation. IEEE Transactions on Power Electronics, 2016, 31, 635-647.	5.4	87
43	A novel dynamic modeling method for wireless power transfer systems. , 2015, , .		9
44	Dynamic Modeling Based on Coupled Modes for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 6245-6253.	5.4	75
45	Coil structure optimization method for improving coupling coefficient of wireless power transfer. , 2015, , .		24
46	A Maximum Efficiency Point Tracking Control Scheme for Wireless Power Transfer Systems Using Magnetic Resonant Coupling. IEEE Transactions on Power Electronics, 2015, 30, 3998-4008.	5.4	460
47	Study on efficiency maximization design principles for Wireless Power Transfer system using magnetic resonant coupling. , 2013, , .		18
48	Three-dimensional geometric optimization of WPT coils for coupling coefficient maximization. Journal of Power Electronics, 0, , 1.	0.9	0