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	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
2	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
3	Distributed Power System Virtual Inertia Implemented by Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 8488-8499.	5.4	356
4	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
5	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
6	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
7	A Multiloop Method for Minimization of Parasitic Inductance in GaN-Based High-Frequency DCâ€“DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 4728-4740.	5.4	104
8	Pulse Density Modulated ZVS Full-Bridge Converters for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2019, 34, 369-377.	5.4	104
9	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
10	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
11	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
12	Dynamic Modeling Based on Coupled Modes for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 6245-6253.	5.4	75
13	A Magnetic Integrated LLCL Filter for Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2017, 32, 1725-1730.	5.4	60
14	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
15	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
16	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
17	Dynamic Phasor-Based Reduced-Order Models of Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2019, 34, 11361-11370.	5.4	25
18	Coil structure optimization method for improving coupling coefficient of wireless power transfer. , 2015, , .		24

#	Article	IF	Citations
19	The Role of Power Electronics in Future Low Inertia Power Systems. , 2018, , .		24
20	Fully Mechanically Controlled Automated Electron Microscopic Tomography. Scientific Reports, 2016, 6, 29231.	1.6	19
21	Design of virtual synchronous generators with enhanced frequency regulation and reduced voltage distortions. , 2018, , .		19
22	Study on efficiency maximization design principles for Wireless Power Transfer system using magnetic resonant coupling. , 2013, , .		18
23	An improved switching loss model for a 650V enhancement-mode GaN transistor. , 2016, , .		18
24	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
25	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
26	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
27	Analysis and control of post regulation of wireless power transfer systems. , 2016, , .		11
28	System frequency regulation in Singapore using distributed energy storage systems. , 2017, , .		10
29	A novel dynamic modeling method for wireless power transfer systems. , 2015, , .		9
30	A burst mode pulse density modulation scheme for inductive power transfer systems without communication modules. , 2018, , .		8
31	Power management of virtual synchronous generators through using hybrid energy storage systems. , 2018, , .		7
32	Synchronous Rectification-Based Phase Shift Keying Communication for Wireless Power Transfer Systems. , 2018, , .		7
33	An Isolated Capacitor-Compensated Current Sensing Method for High-Frequency Resonant Converters. IEEE Transactions on Power Electronics, 2019, 34, 6009-6013.	5.4	6
34	A Monotonic Output Regulation Method for Series-Series Compensated Inductive Power Transfer Systems with Improved Efficiency and Communication-Less Control. , 2018, , .		5
35	Reshaping Quadrature-Axis Impedance of Three-Phase Grid-Connected Converters for Low-Frequency Stability Improvement. , 2018, , .		4
36	Efficiency Analysis of LCC-S and S-S Inductive Power Transfer Considering Switching Device and Component Losses. , 2020, , .		4

#	Article	IF	Citations
37	Reduced-Order Dynamical Models of Tuned Wireless Power Transfer Systems. , 2018, , .		3
38	Modeling the dynamics of wireless power transfer using a generalized average model of high-Q resonators. , 2018, , .		2
39	A Dual Phase Shedding Method for the Improvement of Efficiency and Reduction of Regulating Requirements in Series-series Inductive Power Transfer. , 2020, , .		2
40	Improved virtual capacitive droop control for hybridization of energy storages in DC microgrid. , 2016, , .		1
41	High frequency conducted EMI modeling of a series-series resonant WPT system. , 2017, , .		1
42	A pulse density modulation method for ZVS full-bridge converters in wireless power transfer systems. , 2018, , .		1
43	Stability Analysis and Improvement of Three-Phase Grid-Connected Power Converters with Virtual Inertia Control. , 2019, , .		1
44	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
45	Operating area analysis and design of WPT systems with MEPT control. Journal of Power Electronics, 2022, 22, 702-710.	0.9	1
46	Delta-sigma modulation for maximum efficiency point tracking of wireless power transfer systems. , 2017, , .		0
47	Controlling the Phase Angle in LCC-S IPT for Information Feedback. , 2020, , .		0
48	Three-dimensional geometric optimization of WPT coils for coupling coefficient maximization. Journal of Power Electronics, 0, , 1.	0.9	0