

Changsong Cai

List of Publications by Year in descending order

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687363

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28
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495
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multichannel Wireless UAV Charging System With Compact Receivers for Improving Transmission Stability and Capacity. IEEE Systems Journal, 2022, 16, 997-1008.	4.6	32
2	A Cost-Effective Segmented Dynamic Wireless Charging System With Stable Efficiency and Output Power. IEEE Transactions on Power Electronics, 2022, 37, 8682-8700.	7.9	43
3	A Misalignment Tolerant Design for a Dual-Coupled LCC-S-Compensated WPT System With Load-Independent CC Output. IEEE Transactions on Power Electronics, 2022, 37, 7480-7492.	7.9	33
4	Analysis and Design of an LCCC/S-Compensated WPT System With Constant Output Characteristics for Battery Charging Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1169-1180.	5.4	48
5	A Field Enhancement Integration Design Featuring Misalignment Tolerance for Wireless EV Charging Using LCL Topology. IEEE Transactions on Power Electronics, 2021, 36, 3852-3867.	7.9	70
6	High-Data-Frequency-Ratio Information Transmission Method for Fast Dynamic Response SWPIT Systems Based on DASK Modulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3822-3834.	5.4	6
7	Improved Coplanar Couplers Based WPT Systems for Adaptive Energy Harvesting on Power Towers. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 922-934.	2.2	14
8	A Modular Integration Design of LCL Circuit Featuring Field Enhancement and Misalignment Tolerance for Wireless EV Charging. , 2020, , .		3
9	Dynamic Frequency Tracking Method for Anti-offset Wireless Power Transfer System Based on Phase Comparison. IOP Conference Series: Materials Science and Engineering, 2020, 719, 012038.	0.6	0
10	Quasi-Independent Bidirectional Communication Methods for Simultaneous Wireless Power and Information Transmission. Applied Sciences (Switzerland), 2020, 10, 7130.	2.5	0
11	Effective-Configuration WPT Systems for Drones Charging Area Extension Featuring Quasi-Uniform Magnetic Coupling. IEEE Transactions on Transportation Electrification, 2020, 6, 920-934.	7.8	55
12	Research on Mutual Inductance Prediction of Resonant Magnetic Coupling Wireless Power Transmission System Based on Recursive Least Square Method. IOP Conference Series: Materials Science and Engineering, 2020, 719, 012039.	0.6	0
13	A communication-free WPT system based on transmitter-side hybrid topology switching for battery charging applications. AIP Advances, 2020, 10, .	1.3	5
14	Misalignment-tolerant integrated IPT systems for tram logistics robots featuring dual-purpose coupler. IET Electric Power Applications, 2020, 14, 1984-1995.	1.8	1
15	Phase-detection-based metal objects and pickup coils detection scheme without malfunction in wireless power transfer system. IET Electric Power Applications, 2020, 14, 2222-2230.	1.8	6
16	High-Bandwidth-Utilization Wireless Power and Information Transmission Based on DDPSK Modulation. IEEE Access, 2019, 7, 85560-85572.	4.2	7
17	Analysis and Design of Three-Coil Structure WPT System With Constant Output Current and Voltage for Battery Charging Applications. IEEE Access, 2019, 7, 87334-87344.	4.2	34
18	Optimization Design of Drone Wireless Charging System Based on Asymmetric Coupling. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Extended efficiency control method for WPT systems in smart grid under loose coupling extremes. IET Power Electronics, 2019, 12, 2523-2533.	2.1	11
20	Analysis, design and implement of asymmetric coupled wireless power transfer systems for unmanned aerial vehicles. AIP Advances, 2019, 9, .	1.3	17
21	Universal wireless powered terminals for robust overhead transmission line monitoring. IET Power Electronics, 2019, 12, 3739-3748.	2.1	14
22	Resonant Wireless Charging System Design for 110-kV High-Voltage Transmission Line Monitoring Equipment. IEEE Transactions on Industrial Electronics, 2019, 66, 4118-4129.	7.9	89
23	Design and Optimization of Load-Independent Magnetic Resonant Wireless Charging System for Electric Vehicles. IEEE Access, 2018, 6, 17264-17274.	4.2	88
24	Accurate Maximum Power Tracking of Wireless Power Transfer System Based on Simulated Annealing Algorithm. IEEE Access, 2018, 6, 60881-60890.	4.2	29
25	Optimization design of wireless charging system for autonomous robots based on magnetic resonance coupling. AIP Advances, 2018, 8, 055004.	1.3	23
26	Study of resonant self-charging rats experiment playground based on Witricity technology. International Journal of Applied Electromagnetics and Mechanics, 2017, 53, 409-421.	0.6	5
27	Electromagnetic properties of cylinder permanent magnet eddy current coupling. International Journal of Applied Electromagnetics and Mechanics, 2017, 54, 655-671.	0.6	8
28	Combination of Compensations and Multi-Parameter Coil for Efficiency Optimization of Inductive Power Transfer System. Energies, 2017, 10, 2088.	3.1	4