

Changsong Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6769071/publications.pdf>

Version: 2024-02-01

28
papers

646
citations

687363

13
h-index

642732

23
g-index

28
all docs

28
docs citations

28
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Design and Optimization of Load-Independent Magnetic Resonant Wireless Charging System for Electric Vehicles. IEEE Access, 2018, 6, 17264-17274.	4.2	88
3	A Field Enhancement Integration Design Featuring Misalignment Tolerance for Wireless EV Charging Using $\lambda/4$ Topology. IEEE Transactions on Power Electronics, 2021, 36, 3852-3867.	7.9	70
4	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
5	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
6	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
7	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
8	A Misalignment Tolerant Design for a Dual-Coupled $\lambda/4$ -S-Compensated WPT System With Load-Independent CC Output. IEEE Transactions on Power Electronics, 2022, 37, 7480-7492.	7.9	33
9	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
10	Accurate Maximum Power Tracking of Wireless Power Transfer System Based on Simulated Annealing Algorithm. IEEE Access, 2018, 6, 60881-60890.	4.2	29
11	Optimization design of wireless charging system for autonomous robots based on magnetic resonance coupling. AIP Advances, 2018, 8, 055004.	1.3	23
12	Analysis, design and implement of asymmetric coupled wireless power transfer systems for unmanned aerial vehicles. AIP Advances, 2019, 9, .	1.3	17
13	Universal wireless powered terminals for robust overhead transmission line monitoring. IET Power Electronics, 2019, 12, 3739-3748.	2.1	14
14	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
15	Extended efficiency control method for WPT systems in smart grid under loose coupling extremes. IET Power Electronics, 2019, 12, 2523-2533.	2.1	11
16	Electromagnetic properties of cylinder permanent magnet eddy current coupling. International Journal of Applied Electromagnetics and Mechanics, 2017, 54, 655-671.	0.6	8
17	High-Bandwidth-Utilization Wireless Power and Information Transmission Based on DDPSK Modulation. IEEE Access, 2019, 7, 85560-85572.	4.2	7
18	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

#	ARTICLE	IF	CITATIONS
19	Phaseâ€detectionâ€based metal objects and pickâ€up coils detection scheme without malfunction in wireless power transfer system. IET Electric Power Applications, 2020, 14, 2222-2230.	1.8	6
20	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
21	A communication-free WPT system based on transmitter-side hybrid topology switching for battery charging applications. AIP Advances, 2020, 10, .	1.3	5
22	Combination of Compensations and Multi-Parameter Coil for Efficiency Optimization of Inductive Power Transfer System. Energies, 2017, 10, 2088.	3.1	4
23	A Modular Integration Design of LCL Circuit Featuring Field Enhancement and Misalignment Tolerance for Wireless EV Charging. , 2020, , .		3
24	Optimization Design of Drone Wireless Charging System Based on Asymmetric Coupling. , 2019, , .		1
25	Misalignmentâ€tolerant integrated IPT systems for tram logistics robots featuring dualâ€purpose coupler. IET Electric Power Applications, 2020, 14, 1984-1995.	1.8	1
26	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
27	Quasi-Independent Bidirectional Communication Methods for Simultaneous Wireless Power and Information Transmission. Applied Sciences (Switzerland), 2020, 10, 7130.	2.5	0
28	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