

Junhua Wang

List of Publications by Year in descending order

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67
papers

1,106
citations

430874

18
h-index

434195

31
g-index

68
all docs

68
docs citations

68
times ranked

1073
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	Lateral and Angular Misalignments Analysis of a New PCB Circular Spiral Resonant Wireless Charger. IEEE Transactions on Magnetics, 2012, 48, 4522-4525.	2.1	86
4	Selective Omnidirectional Magnetic Resonant Coupling Wireless Power Transfer With Multiple-Receiver System. IEEE Access, 2018, 6, 19287-19294.	4.2	63
5	Control of an <i>LLC</i> Resonant Converter Using Load Feedback Linearization. IEEE Transactions on Power Electronics, 2018, 33, 887-898.	7.9	55
6	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
7	Analytical Design Study of a Novel Witricity Charger With Lateral and Angular Misalignments for Efficient Wireless Energy Transmission. IEEE Transactions on Magnetics, 2011, 47, 2616-2619.	2.1	52
8	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
9	Image Recognition of Icing Thickness on Power Transmission Lines Based on a Least Squares Hough Transform. Energies, 2017, 10, 415.	3.1	34
10	Deep-Discharging Li-Ion Battery State of Charge Estimation Using a Partial Adaptive Forgetting Factors Least Square Method. IEEE Access, 2019, 7, 47339-47352.	4.2	32
11	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
12	Accurate Maximum Power Tracking of Wireless Power Transfer System Based on Simulated Annealing Algorithm. IEEE Access, 2018, 6, 60881-60890.	4.2	29
13	A Witricity-Based High-Power Device for Wireless Charging of Electric Vehicles. Energies, 2017, 10, 323.	3.1	28
14	Multiple Indicators-Based Health Diagnostics and Prognostics for Energy Storage Technologies Using Fuzzy Comprehensive Evaluation and Improved Multivariate Grey Model. IEEE Transactions on Power Electronics, 2021, 36, 12309-12320.	7.9	27
15	Optimization design of wireless charging system for autonomous robots based on magnetic resonance coupling. AIP Advances, 2018, 8, 055004.	1.3	23
16	Energy Feedback Control of Light-Load Voltage Regulation for <i>LLC</i> Resonant Converter. IEEE Transactions on Power Electronics, 2019, 34, 4807-4819.	7.9	23
17	Optimal Design of a High Efficiency LLC Resonant Converter with a Narrow Frequency Range for Voltage Regulation. Energies, 2018, 11, 1124.	3.1	21
18	A Review on the Recent Development in the Design and Optimization of Magnetic Coupling Mechanism of Wireless Power Transmission. IEEE Systems Journal, 2020, 14, 4368-4381.	4.6	21

#	ARTICLE	IF	CITATIONS
19	Finite-Element Analysis and Corresponding Experiments of Resonant Energy Transfer for Wireless Transmission Devices. IEEE Transactions on Magnetics, 2011, 47, 1074-1077.	2.1	16
20	Study and Experimental Verification of a Rectangular Printed-Circuit-Board Wireless Transfer System for Low Power Devices. IEEE Transactions on Magnetics, 2012, 48, 3013-3016.	2.1	16
21	Battery degradation model and multiple-indicators based lifetime estimator for energy storage system design and operation: Experimental analyses of cycling-induced aging. Electrochimica Acta, 2021, 384, 138294.	5.2	16
22	Magnetic shielding structure optimization design for wireless power transmission coil. AIP Advances, 2017, 7, .	1.3	15
23	Universal wireless powered terminals for robust overhead transmission line monitoring. IET Power Electronics, 2019, 12, 3739-3748.	2.1	14
24	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
25	Research on Complex Gap Discharge Model of Live Working on EHV and UHV High-Voltage Transmission Lines. Canadian Journal of Electrical and Computer Engineering, 2014, 37, 11-18.	2.0	13
26	A Novel Discharge Mode Identification Method for Series-Connected Battery Pack Online State-of-Charge Estimation Over A Wide Life Scale. IEEE Transactions on Power Electronics, 2021, 36, 326-341.	7.9	13
27	FEM Simulations and Experiments for the Advanced Witricity Charger With Compound Nano-TiO ₂ Interlayers. IEEE Transactions on Magnetics, 2011, 47, 4449-4452.	2.1	12
28	Extended efficiency control method for WPT systems in smart grid under loose coupling extremes. IET Power Electronics, 2019, 12, 2523-2533.	2.1	11
29	Optimal Design of Magnetic Coupling Wireless Power Supply System for Monitoring Equipment. IEEE Access, 2018, 6, 58600-58608.	4.2	9
30	Dynamic performance analysis of permanent magnet contactor with a flux-weakening control strategy. Journal of Applied Physics, 2011, 109, .	2.5	8
31	Electromagnetic properties of cylinder permanent magnet eddy current coupling. International Journal of Applied Electromagnetics and Mechanics, 2017, 54, 655-671.	0.6	8
32	Stability Analysis and Trigger Control of LLC Resonant Converter for a Wide Operational Range. Energies, 2017, 10, 1448.	3.1	8
33	An advanced double-layer combined windings transverse flux system for thin strip induction heating. Journal of Applied Physics, 2011, 109, 07E511.	2.5	7
34	5000 h Multi-Factor Accelerated Aging Test of FRP Made Transmission Tower: Characterization, Thermal Decomposition and Reaction Kinetics Study. Polymers, 2017, 9, 170.	4.5	7
35	Study on dual pre-warning of transmission line icing based on improved residual MGM-Markov theory. IEEE Transactions on Electrical and Electronic Engineering, 2018, 13, 561-569.	1.4	7
36	A Full-Freedom Wireless Power Transfer for Spheroid Joints. IEEE Access, 2019, 7, 18675-18684.	4.2	7

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37	Design and Analysis of a Novel Traveling Wave Induction Heating System With Magnetic Slot Wedges for Heating Moving Thin Strips. IEEE Transactions on Magnetics, 2010, 46, 2175-2178.	2.1	6
38	Polymer-bonded NiZn ferrite magnetic cores mixed with titanium (IV) isopropoxide (C ₁₂ H ₂₈ O ₄ Ti). Journal of Applied Physics, 2011, 109, 07A514.	2.5	6
39	A novel resonant inductive magnetic coupling wireless charger with TiO ₂ compound interlayer. Journal of Applied Physics, 2011, 109, 07E502.	2.5	6
40	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
41	A Dual-Frequency WPT Based on Multilayer Self-Decoupled Compact Coil and Dual CLCL Hybrid Compensation Topology. IEEE Transactions on Power Electronics, 2022, 37, 13955-13965.	7.9	6
42	Design and FEM Analysis of a New Distributed Vernier Traveling Wave Induction Heater for Heating Moving Thin Strips. IEEE Transactions on Magnetics, 2011, 47, 2612-2615.	2.1	5
43	Analytical analysis and implementation of a low-speed high-torque permanent magnet vernier in-wheel motor for electric vehicle. Journal of Applied Physics, 2012, 111, 07E727.	2.5	5
44	Analytical study and corresponding experiments for a new resonant magnetic charger with circular spiral coils. Journal of Applied Physics, 2012, 111, 07E704.	2.5	5
45	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
46	Experimental study on ice-covered samples of composite material tower. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2937-2944.	2.9	5
47	Simulation analysis of coupled magnetic-temperature fields in magnetic fluid hyperthermia. AIP Advances, 2019, 9, 105317.	1.3	5
48	Finite element analysis and corresponding experiments of resonant energy transmission for wireless transmission devices using witricity. , 2010, , .		4
49	Harmonic analysis based on time domain mutual-multiplication window. Journal of Modern Power Systems and Clean Energy, 2016, 4, 47-53.	5.4	4
50	Combination of Compensations and Multi-Parameter Coil for Efficiency Optimization of Inductive Power Transfer System. Energies, 2017, 10, 2088.	3.1	4
51	Rectifier Current Control for an LLC Resonant Converter Based on a Simplified Linearized Model. Energies, 2018, 11, 579.	3.1	4
52	Modeling Analysis on Propagation of Structure-Borne Vibration Caused by an Indoor Distribution Transformer in a Building and Its Control Method. Applied Sciences (Switzerland), 2017, 7, 405.	2.5	3
53	A real-time alarm and early warning model for windage yaw of cat-head type tower. IEEE Transactions on Electrical and Electronic Engineering, 2018, 13, 448-454.	1.4	3
54	Study on windage yaw calculation and real-time warning method of Shanxi power grid considering microclimate and micro-terrain factors. IEEE Transactions on Electrical and Electronic Engineering, 2018, 13, 681-688.	1.4	3

#	ARTICLE	IF	CITATIONS
55	Multifactor mechanical aging properties and electrical performance research on composite material tower and samples. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 13-26.	1.4	3
56	A comparative study between witricity and traditional inductive coupling in wireless energy transmission. , 2010, , .		2
57	A neural network combined with a three-dimensional finite element method applied to optimize eddy current and temperature distributions of traveling wave induction heating system. Journal of Applied Physics, 2011, 109, 07E522.	2.5	2
58	Witricity charger design with FEM simulation and corresponding experiment verification for recharging the deep brain stimulation. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 61-74.	0.6	2
59	A Novel Modulation Method of LLC Resonant Converter with Linear Model and High Efficiency. , 2019, , .		2
60	LLC Resonant Converter With Damping Split Inductor Improving Light-Load Regulation Ability. IEEE Transactions on Vehicular Technology, 2020, 69, 1428-1439.	6.3	2
61	Output-Voltage Adaptive of Omnidirectional Wireless Power Transfer Based on Receivers With Digital Coils. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4937-4945.	5.4	2
62	A New High-Efficiency Double-Stator Split-Pole Permanent-Magnet Vernier Machine with Flux-Focusing Topology. Applied Sciences (Switzerland), 2017, 7, 356.	2.5	1
63	Analysis and Comparison of Three Typical Resonant DC-DC Converters. , 2019, , .		1
64	Misalignment-tolerant integrated IPT systems for tram logistics robots featuring dual-purpose coupler. IET Electric Power Applications, 2020, 14, 1984-1995.	1.8	1
65	Li-ion Battery State of Charge Estimation of Multi-type Working Conditions Using a Segmented Multiple Independent Forgetting Factors Recursive Least Squares Method. , 2020, , .		1
66	Improved FEM for distribution network cables rating using multiple forgetting factors least-square. AIP Advances, 2018, 8, 105030.	1.3	0
67	Voltage variation with hybrid pulse as a novel indicator for lifetime estimation of Li-ion battery using in smart grid. , 2020, , .		0