# Ming Liu

List of Publications by Year
in descending order

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| 61 | 1,217 | 394286 | 526166 |
|---|---|---|---|
| papers | citations | 19 h-index | 27 g-index |

| 61 | 61 | 61 | 831 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis and Implementation of 3D Magnetic Field Shaping via a 2D Planar Transmitting Coil Array. IEEE Transactions on Power Electronics, 2022, 37, 1172-1184. | 5.4 | 21 |
| 2 | Explicit Design of Impedance Matching Networks for Robust MHz WPT Systems With Different Features. IEEE Transactions on Power Electronics, 2022, 37, 11382-11393. | 5.4 | 20 |
| 3 | A Multi-MHz Active Clamp Topology for High Cost-Performance Wireless Power Transfer. IEEE Transactions on Power Electronics, 2022, 37, 12828-12840. | 5.4 | 18 |
| 4 | Circuit Architecture and Design of A Megahertz Wireless Power Transfer System for Drones. , 2022, , . | | 2 |
| 5 | A Universal Optimal Drainâ€“Source Voltage Tracking Scheme for Synchronous Resonant Rectifiers in Megahertz Wireless Power Transfer Applications. IEEE Transactions on Power Electronics, 2021, 36, 5147-5156. | 5.4 | 18 |
| 6 | Dual Frequency Hierarchical Modular Multilayer Battery Balancer Architecture. IEEE Transactions on Power Electronics, 2021, 36, 3099-3110. | 5.4 | 26 |
| 7 | High-Performance Megahertz Wireless Power Transfer: Topologies, Modeling, and Design. IEEE Industrial Electronics Magazine, 2021, 15, 28-42. | 2.3 | 21 |
| 8 | Analysis and Design of a Self-Resonant Rectenna for Small-Size and Ultraloosely Coupled MHz Wireless Power Transfer Applications. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 535-544. | 3.0 | 4 |
| 9 | A Wide-Load-Range and Compact MHz Wireless Power Transfer System Based on Novel Reactance Compression Design and Edge Inductor. IEEE Transactions on Power Electronics, 2021, 36, 11183-11195. | 5.4 | 12 |
| 10 | A Hybrid Class-E Topology With Constant Current and Constant Voltage Output for Light EVs Wireless Charging Application. IEEE Transactions on Transportation Electrification, 2021, 7, 2168-2180. | 5.3 | 19 |
| 11 | A Planar Multi-coil Transmitter for Visible Magnetic Field Shaping in Wireless Power Transfer. , 2021, , . | | 0 |
| 12 | Comparison of Different Multi-winding Transformer Models in Multi-port AC-coupled Converter Application. , 2021, , . | | 4 |
| 13 | Dual-Band Wireless Power Transfer With Reactance Steering Network and Reconfigurable Receivers. IEEE Transactions on Power Electronics, 2020, 35, 496-507. | 5.4 | 42 |
| 14 | Active Class E Rectifier for DC Output Voltage Regulation in Megahertz Wireless Power Transfer Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 3618-3628. | 5.2 | 11 |
| 15 | A Hybrid Active/Passive Domino Architecture with MIMO Power Flow Control and Mixed Frequency Operation for Extended Range and Multi-Medium Wireless Power Transfer. , 2020, , . | | 0 |
| 16 | A Multiway Bidirectional Multiport-Ac-Coupled (MAC) Battery Balancer with Online Electrochemical Impedance Spectroscopy. , 2020, , . | | 7 |
| 17 | A Robust Compensation Method for Megahertz Wireless Power Transfer Based on Rectifier Input Impedance Analysis. , 2020, , . | | 0 |
| 18 | Analysis and Design of a High-Efficiency 6.78-MHz Wireless Power Transfer System With Scalable Number of Receivers. IEEE Transactions on Industrial Electronics, 2020, 67, 8281-8291. | 5.2 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dual-Band Wireless Power Transmitter with Reconfigurable Power Amplifier and "Decoupling Ring". , 2020, , . | | 4 |
| 20 | Class E Active Rectifier with Controlled Output Voltage for MHz Wireless Power Transfer. , 2020, , . | | 2 |
| 21 | A Linear Extendable Phase-shift Controlled Multi-coil Transmitter Architecture for Wireless Power Transfer with 3D Magnetic Field Shaping. , 2020, , . | | 5 |
| 22 | An Isolated 6.78-MHz Class D2 DC-DC Converter with Voltage Modulation. , 2020, , . | | 0 |
| 23 | A High-Power Density Finite Class E Power Amplifier with â€œEdge Inductorâ€•for Wireless Power Transfer Application. , 2020, , . | | 1 |
| 24 | Optimization of Super Capacitor Buffered Dynamic Wireless Power Transfer System. , 2020, , . | | 1 |
| 25 | Dual-Band Multi-Receiver Wireless Power Transfer: Architecture, Topology, and Control. , 2019, , . | | 7 |
| 26 | An Improved Model Equation Based on a Gaussian Function Trinomial for State of Charge Estimation of Lithium-ion Batteries. Energies, 2019, 12, 1366. | 1.6 | 8 |
| 27 | High Power Density Stacked-Coils Based power Receiver for MHz Wireless Power Transfer. , 2019, , . | | 6 |
| 28 | A Compact Isolated 6.78-MHz Class E2 Converter via Wireless Inductive Coupling. , 2019, , . | | 0 |
| 29 | A Phase-controlled Stacked-transmitter Wireless Power Transfer System for Magnetic Field Beamforming. , 2019, , . | | 1 |
| 30 | A 6.78-MHz Class E2 Converter with the Flexible DC-DC Voltage Ratio. , 2019, , . | | 2 |
| 31 | MSP-LEGO: Modular Series-Parallel (MSP) Architecture and LEGO Building Blocks for Non-isolated High Voltage Conversion Ratio Hybrid Dc-Dc Converters. , 2019, , . | | 2 |
| 32 | A 13.56 MHz Multiport-Wireless-Coupled (MWC) Battery Balancer with High Frequency Online Electrochemical Impedance Spectroscopy. , 2019, , . | | 15 |
| 33 | A 99.7% Efficient 300 W Hard Disk Drive Storage Server with Multiport Ac-Coupled Differential Power Processing (MAC-DPP) Architecture. , 2019, , . | | 9 |
| 34 | Active Class E Rectifier with Controlled Output Voltage for Megahertz Wireless Power Transfer. , 2019, , . | | 0 |
| 35 | Tunable Class $E^2$ DCâ€“DC Converter With High Efficiency and Stable Output Power for 6.78-MHz Wireless Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 6877-6886. | 5.4 | 51 |
| 36 | Design methodology of the power receiver with high efficiency and constant output voltage for megahertz wireless power transfer. , 2018, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Autonomous Power Control in a Reconfigurable 6.78-MHz Multiple-Receiver Wireless Charging System. IEEE Transactions on Industrial Electronics, 2018, 65, 6177-6187. | 5.2 | 38 |
| 38 | Battery Cell Equalization via Megahertz Multiple-Receiver Wireless Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 4135-4144. | 5.4 | 89 |
| 39 | Robust Control of PMSM Using Geometric Model Reduction and $mu$-Synthesis. IEEE Transactions on Industrial Electronics, 2018, 65, 498-509. | 5.2 | 42 |
| 40 | A 6.78 MHz Multiple-Receiver Wireless Power Transfer System With Constant Output Voltage and Optimum Efficiency. IEEE Transactions on Power Electronics, 2018, 33, 5330-5340. | 5.4 | 103 |
| 41 | Pulsed corona discharge for improving treatability of coking wastewater. Journal of Environmental Sciences, 2018, 64, 306-316. | 3.2 | 17 |
| 42 | Dual-Band Multi-Receiver Wireless Power Transfer with Reactance Steering Network. , 2018, , . | | 5 |
| 43 | Low-Harmonic-Contents and High-Efficiency Class E Full-Wave Current-Driven Rectifier for Megahertz Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2017, 32, 1198-1209. | 5.4 | 57 |
| 44 | Analysis and Design of A Robust Class $E^2$ DCâ€“DC Converter for Megahertz Wireless Power Transfer. IEEE Transactions on Power Electronics, 2017, 32, 2835-2845. | 5.4 | 47 |
| 45 | A High-Efficiency/Output Power and Low-Noise Megahertz Wireless Power Transfer System Over a Wide Range of Mutual Inductance. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4317-4325. | 2.9 | 31 |
| 46 | Battery Charging Profile-Based Parameter Design of a 6.78-MHz Class $E^2$ Wireless Charging System. IEEE Transactions on Industrial Electronics, 2017, 64, 6169-6178. | 5.2 | 41 |
| 47 | Optimal design of megahertz wireless power transfer systems for biomedical implants. , 2017, , . | | 4 |
| 48 | Design procedure of a class E2DC-DC converter for megahertz wireless power transfer based on a compact class E current-driven rectifier. , 2017, , . | | 6 |
| 49 | Efficiency optimization and power distribution design of a megahertz multi-receiver wireless power transfer system. , 2017, , . | | 7 |
| 50 | A Novel Design Methodology for High-Efficiency Current-Mode and Voltage-Mode Class-E Power Amplifiers in Wireless Power Transfer systems. IEEE Transactions on Power Electronics, 2017, 32, 4514-4523. | 5.4 | 97 |
| 51 | Optimal selection of PI parameters of FOC for PMSM using structured H<inf>âˆž</inf>-synthesis. , 2017, , . | | 3 |
| 52 | A Novel Layered Bidirectional Equalizer Based on a Buck-Boost Converter for Series-Connected Battery Strings. Energies, 2017, 10, 1011. | 1.6 | 33 |
| 53 | Loading and Power Control for a High-Efficiency Class E PA-Driven Megahertz WPT System. IEEE Transactions on Industrial Electronics, 2016, 63, 6867-6876. | 5.2 | 76 |
| 54 | Robust optimization for a 6.78-MHz wireless power transfer system with Class E rectifier. , 2016, , . | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Optimal design of a 6.78-MHz wireless battery charging system based on average power loss. , 2016, , . | | 1 |
| 56 | Robust control of PMSM using geometric model reduction and Î¼-synthesis. , 2016, , . | | 2 |
| 57 | Parameter Design for a 6.78-MHz Wireless Power Transfer System Based on Analytical Derivation of Class E Current-Driven Rectifier. IEEE Transactions on Power Electronics, 2016, 31, 4280-4291. | 5.4 | 105 |
| 58 | Optimization of the compensation capacitors for megahertz wireless power transfer systems. , 2015, , . | | 2 |
| 59 | A compact Class E rectifier for megahertz wireless power transfer. , 2015, , . | | 9 |
| 60 | A high-efficiency Class-E power amplifier with wide-range load in WPT systems. , 2015, , . | | 5 |
| 61 | Full-bridge rectifier input reactance compensation in Megahertz wireless power transfer systems. , 2015, , . | | 23 |