# Aiguo Patrick Hu

List of Publications by Year
in descending order

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|---|---|---|---|
| 170 papers | 4,436 citations | 159525 30 h-index | 143943 57 g-index |
| 170 all docs | 170 docs citations | 170 times ranked | 2175 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Compensation Network Design of CPT Systems for Achieving Maximum Power Transfer Under Coupling Voltage Constraints. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 138-148. | 3.7 | 32 |
| 2 | Dual-Loop Control Method for CPT System Under Coupling Misalignments and Load Variations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4902-4912. | 3.7 | 18 |
| 3 | Redefining the Channel Bandwidth for Simultaneous Wireless Power and Information Transfer. IEEE Transactions on Industrial Electronics, 2022, 69, 6881-6891. | 5.2 | 3 |
| 4 | Study of power flow mechanism of capacitive power transfer system based on Poynting vector analysis. International Journal of Electrical Power and Energy Systems, 2022, 134, 107374. | 3.3 | 2 |
| 5 | Robust Control of IPT System for Constant Current Charging Under Multiple Parameter Perturbations. IEEE Transactions on Industry Applications, 2022, 58, 1168-1178. | 3.3 | 4 |
| 6 | Metal Object Detection by Monitoring Fifth-Order Harmonic Current of IPT System With Dual Frequency Tuning. IEEE Transactions on Power Electronics, 2022, 37, 2513-2518. | 5.4 | 8 |
| 7 | Investigation of reactive power distribution between two coils of inductive power transfer system by Poynting vector analysis. International Journal of Electrical Power and Energy Systems, 2022, 136, 107621. | 3.3 | 1 |
| 8 | Design and Analysis of a CPT System With Extendable Pairs of Electric Field Couplers. IEEE Transactions on Power Electronics, 2022, 37, 7443-7455. | 5.4 | 11 |
| 9 | Capacitive Power Transfer System With Integrated Wide Bandwidth Communication. IEEE Transactions on Power Electronics, 2022, 37, 8805-8810. | 5.4 | 5 |
| 10 | A Dynamic Tuning Method for ZPA Frequency Operation of MEU-WPT System by DC Input Voltages Regulation. IEEE Transactions on Power Electronics, 2022, 37, 11369-11381. | 5.4 | 10 |
| 11 | Concentric-Coil Hybrid IPT System With Improved Tolerance to Coupling and Load Variations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4913-4922. | 3.7 | 6 |
| 12 | Wireless Charger Design of Robot Vacuum Cleaners with Power Repeaters for High Compatibility. Journal of Electromagnetic Analysis and Applications, 2022, 14, 47-64. | 0.1 | 0 |
| 13 | Multiobjective Parameter Optimization of a Four-Plate Capacitive Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2328-2342. | 3.7 | 16 |
| 14 | A General Mutual Coupling Model of MIMO Capacitive Coupling Interface With Arbitrary Number of Ports. IEEE Transactions on Power Electronics, 2021, 36, 6163-6167. | 5.4 | 19 |
| 15 | Simultaneous Wireless Power and Information Transfer Based on Phase-Shift Modulation in ICPT System. IEEE Transactions on Energy Conversion, 2021, 36, 629-639. | 3.7 | 10 |
| 16 | A Wireless Power Method for Deeply Implanted Biomedical Devices via Capacitively Coupled Conductive Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 1870-1882. | 5.4 | 58 |
| 17 | Modeling Single-Wire Capacitive Power Transfer System With Strong Coupling to Ground. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2295-2302. | 3.7 | 19 |
| 18 | A CPT system with switchable compensation for constant current or voltage output against load and coupling capacitance variations. Electrical Engineering, 2021, 103, 2391-2402. | 1.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Modular-Based PV System with Contactless Capacitive Power Transfer Interface. , 2021, , . | | 3 |
| 20 | A Dual Frequency Tuning Method for Improved Coupling Tolerance of Wireless Power Transfer System. IEEE Transactions on Power Electronics, 2021, 36, 7360-7365. | 5.4 | 25 |
| 21 | Capacitive Power Transfer System with Double T-type Resonant Network for Mobile Devices Charging/Supply. IEEE Transactions on Power Electronics, 2021, , 1-1. | 5.4 | 23 |
| 22 | Optimal Load Determination of Capacitorâ€“Inductor Compensated Capacitive Power Transfer System with Curved-Edge Shielding Layer. Electronics (Switzerland), 2021, 10, 2961. | 1.8 | 1 |
| 23 | Four-plate capacitive power transfer system with different grounding connections. International Journal of Electrical Power and Energy Systems, 2020, 115, 105494. | 3.3 | 9 |
| 24 | A Pushâ€“Pull Parallel Resonant Converter-Based Bidirectional IPT System. IEEE Transactions on Power Electronics, 2020, 35, 2659-2667. | 5.4 | 32 |
| 25 | Eddy Current Loss and Detuning Effect of Seawater on Wireless Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 909-917. | 3.7 | 46 |
| 26 | A Sleeve-Type Capacitive Power Transfer System With Different Coupling Arrangements for Rotary Application. IEEE Access, 2020, 8, 69148-69159. | 2.6 | 17 |
| 27 | An Impedance Matching Network Tuning Method for Constant Current Output Under Mutual Inductance and Load Variation of IPT System. IEEE Transactions on Power Electronics, 2020, 35, 11108-11118. | 5.4 | 14 |
| 28 | Improving magnetic coupling characteristics of square coupler ICPT system by round corner design. Electrical Engineering, 2020, 102, 1021-1033. | 1.2 | 4 |
| 29 | Obtaining Maximum Efficiency of Inductive Power-Transfer System by Impedance Matching Based on Boost Converter. IEEE Transactions on Transportation Electrification, 2020, 6, 488-496. | 5.3 | 12 |
| 30 | Load Effect Analysis and Maximum Power Transfer Tracking of CPT System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2836-2848. | 3.5 | 19 |
| 31 | A Wireless Selective Frequency Hybrid Compensation Network with Constant Power Profile against Pad Misalignment. , 2020, , . | | 2 |
| 32 | Numerical Analysis of Reactive Power Distribution between Two Coupled Coils by Poynting Vector. , 2020, , . | | 1 |
| 33 | Study of Electric and Magnetic Field Distributions between Two Coupled Plates for Capacitive Power Transfer by Simulation and Practical Measurements. , 2020, , . | | 2 |
| 34 | A Comparative Study of Different Compensation Topologies for Capacitive Power Transfer. , 2020, , . | | 10 |
| 35 | Simulation Study of Parasitic and Gate-drive Effects on An Autonomous Push-pull Resonant Converter Based IPT System. , 2020, , . | | 2 |
| 36 | Modeling and Analysis of Inductive Power Transfer System With Passive Matrix Power Repeater. IEEE Transactions on Industrial Electronics, 2019, 66, 4406-4413. | 5.2 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | An F-Type Compensated Capacitive Power Transfer System Allowing for Sudden Change of Pickup. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1084-1093. | 3.7 | 26 |
| 38 | Wireless Power Transfer Across a Metal Barrier by Combined Capacitive and Inductive Coupling. IEEE Transactions on Industrial Electronics, 2019, 66, 4031-4041. | 5.2 | 39 |
| 39 | Robust $mu$ -Synthesis Control of Dual LCL Type IPT System Considering Load and Mutual Inductance Uncertainty. IEEE Access, 2019, 7, 72770-72782. | 2.6 | 12 |
| 40 | A 3D Wireless Charging Cylinder With Stable Rotating Magnetic Field for Multi-Load Application. IEEE Access, 2019, 7, 35981-35997. | 2.6 | 34 |
| 41 | A 3D wireless charging cube with externally enhanced magnetic field for extended range of wireless power transfer. Wireless Power Transfer, 2019, 6, 67-76. | 0.9 | 4 |
| 42 | Simultaneous Wireless Information and Power Transfer in 5G Mobile Networks: A Survey. , 2019, , . | | 12 |
| 43 | Improved CPT system with less voltage stress and sensitivity using a stepâ€down transformer on receiving side. IET Power Electronics, 2019, 12, 2634-2641. | 1.5 | 5 |
| 44 | Study of coupling configurations of capacitive power transfer system with four metal plates. Wireless Power Transfer, 2019, 6, 97-112. | 0.9 | 7 |
| 45 | A Misalignment-Tolerant Series-Hybrid Wireless EV Charging System With Integrated Magnetics. IEEE Transactions on Power Electronics, 2019, 34, 1276-1285. | 5.4 | 194 |
| 46 | Field Orientation Based on Current Amplitude and Phase Angle Control for Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2018, 65, 4758-4770. | 5.2 | 66 |
| 47 | Load and Mutual Inductance Identification From the Primary Side of Inductive Power Transfer System With Parallel-Tuned Secondary Power Pickup. IEEE Transactions on Power Electronics, 2018, 33, 9952-9962. | 5.4 | 71 |
| 48 | Wirelessly powered microactuators. , 2018, , . | | 0 |
| 49 | Bipedal gait model for precise gait recognition and optimal triggering in foot drop stimulator: a proof of concept. Medical and Biological Engineering and Computing, 2018, 56, 1731-1746. | 1.6 | 5 |
| 50 | Impedance-Matching Range Extension Method for Maximum Power Transfer Tracking in IPT System. IEEE Transactions on Power Electronics, 2018, 33, 4419-4428. | 5.4 | 60 |
| 51 | Maximum Efficiency Tracking for Wireless Power Transfer Systems With Dynamic Coupling Coefficient Estimation. IEEE Transactions on Power Electronics, 2018, 33, 5005-5015. | 5.4 | 222 |
| 52 | Power Flow Control of Capacitive Power Transfer by Soft Switching of Extra Capacitors in Class E Converter. , 2018, , . | | 3 |
| 53 | A Capacitive Power Transfer System with a CL Network for Improved System Performance. , 2018, , . | | 6 |
| 54 | A Contactless Single-Wire CPT (Capacitive Power Transfer) Power Supply for Driving a Variable Message Sign. , 2018, , . | | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Improving Detachable Ultrasonic Power Transfer System Using Piezoelectric Stack. , 2018, , . | | 1 |
| 56 | Study of Maximum Power Delivery to Movable Device in Omnidirectional Wireless Power Transfer System. IEEE Access, 2018, 6, 76153-76164. | 2.6 | 30 |
| 57 | Effects of Conductive Tissue on Capacitive Wireless Power Transfer. , 2018, , . | | 4 |
| 58 | Study of Power Flow in an IPT System Based on Poynting Vector Analysis. Energies, 2018, 11, 165. | 1.6 | 11 |
| 59 | DC-DC Converter Based Impedance Matching for Maximum Power Transfer of CPT System with High Efficiency. , 2018, , . | | 9 |
| 60 | A Simple Brightness and Color Control Method for LED Lighting Based on Wireless Power Transfer. IEEE Access, 2018, 6, 51477-51483. | 2.6 | 11 |
| 61 | Capacitive Power Transfer System with Reduced Voltage Stress and Sensitivity. Applied Sciences (Switzerland), 2018, 8, 1131. | 1.3 | 11 |
| 62 | Effect of tuning capacitance of passive power repeaters on power transfer capability of inductive power transfer systems. Wireless Power Transfer, 2018, 5, 97-104. | 0.9 | 1 |
| 63 | Full-Duplex Communication on the Shared Channel of a Capacitively Coupled Power Transfer System. IEEE Transactions on Power Electronics, 2017, 32, 3229-3239. | 5.4 | 41 |
| 64 | A DC-Voltage-Controlled Variable Capacitor for Stabilizing the ZVS Frequency of a Resonant Converter for Wireless Power Transfer. IEEE Transactions on Power Electronics, 2017, 32, 2312-2318. | 5.4 | 75 |
| 65 | Improved wireless power pickup efficiency using CMOS synchronous rectifier with embedded shorting control. Wireless Power Transfer, 2017, 4, 61-68. | 0.9 | 3 |
| 66 | Modeling and analysis of ultrasonic power transfer system with tightly coupled solid medium. Wireless Power Transfer, 2017, 4, 1-12. | 0.9 | 5 |
| 67 | Capacitive Power Transfer System With a Mixed-Resonant Topology for Constant-Current Multiple-Pickup Applications. IEEE Transactions on Power Electronics, 2017, 32, 8778-8786. | 5.4 | 60 |
| 68 | Characterizing regions of attraction for piecewise affine systems by continuity of discrete transition functions. Nonlinear Dynamics, 2017, 90, 2093-2110. | 2.7 | 7 |
| 69 | A single-wire capacitive power transfer system with large coupling alignment tolerance. , 2017, , . | | 22 |
| 70 | Determining the power distribution between two coupled coils based on Poynting vector analysis. , 2017, , . | | 5 |
| 71 | The Recognition and Control of Nonideal Soft-Switching Frequency for Wireless Power Transfer System Based on Waveform Identification. IEEE Transactions on Power Electronics, 2017, 32, 6617-6627. | 5.4 | 15 |
| 72 | Enhancing wireless power transfer capability of inductive power transfer system using matrix power repeater. , 2017, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Real-time detection of step direction based on plantar pressure pattern during walk. , 2017, , . | | 1 |
| 74 | Extending the inductive power transfer range by using passive power repeaters. , 2017, , . | | 3 |
| 75 | Power density distribution analysis of an IPT system based on poynting vector. , 2017, , . | | 1 |
| 76 | The effect of matrix power repeaters on magnetic field distribution of IPT systems. , 2017, , . | | 1 |
| 77 | A Power Processing Circuit for Indoor Wi-Fi Energy Harvesting for Ultra-Low Power Wireless Sensors. Applied Sciences (Switzerland), 2017, 7, 827. | 1.3 | 6 |
| 78 | Energy Link Optimization in a Wireless Power Transfer Grid under Energy Autonomy Based on the Improved Genetic Algorithm. Energies, 2016, 9, 682. | 1.6 | 3 |
| 79 | Determining the maximum power transfer condition for Ultrasonic Power Transfer system. , 2016, , . | | 3 |
| 80 | LCL and CL compensations for wireless three phase bi-directional EV charging systems. , 2016, , . | | 8 |
| 81 | Stabilising the output voltage of wireless power pickup through parallel tuned DCâ€voltage controlled variable capacitor. Electronics Letters, 2016, 52, 758-759. | 0.5 | 5 |
| 82 | Accurate steady-state modeling of capacitive-coupling interface of capacitive power transfer systems with cross-coupling. Wireless Power Transfer, 2016, 3, 53-62. | 0.9 | 14 |
| 83 | Z-Impedance Compensation for Wireless Power Transfer Based on Electric Field. IEEE Transactions on Power Electronics, 2016, 31, 7556-7563. | 5.4 | 83 |
| 84 | Indoor 2.45 GHz Wi-Fi Energy Harvester With Bridgeless Converter. IEEE Journal on Selected Areas in Communications, 2016, 34, 1536-1549. | 9.7 | 8 |
| 85 | Mechanical frequency up-conversion for sub-resonance, low-frequency vibration harvesting. Journal of Intelligent Material Systems and Structures, 2016, 27, 2145-2159. | 1.4 | 20 |
| 86 | Wireless Power Supply for ICP Devices With Hybrid Supercapacitor and Battery Storage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 273-279. | 3.7 | 40 |
| 87 | A Shared Channel Design for the Power and Signal Transfers of Electric-field Coupled Power Transfer Systems. Journal of Power Electronics, 2016, 16, 805-814. | 0.9 | 9 |
| 88 | Cross coupling effects of poly-phase bi-directional inductive power transfer systems used for EV charging. , 2015, , . | | 7 |
| 89 | Preliminary development of an ultra low power electro-permanent magnet based actuator for microfluidic systems. , 2015, , . | | 0 |
| 90 | Autonomous Polyphase Current-Fed Pushâ€“Pull Resonant Converter Based on Ring Coupled Oscillators. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 568-576. | 3.7 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Theoretical modeling and analysis of a wireless Ultrasonic Power Transfer system. , 2015, , . | | 2 |
| 92 | Steady-State Load Identification Method of Inductive Power Transfer System Based on Switching Capacitors. IEEE Transactions on Power Electronics, 2015, 30, 6349-6355. | 5.4 | 96 |
| 93 | Defining the mutual coupling of capacitive power transfer for wireless power transfer. Electronics Letters, 2015, 51, 1806-1807. | 0.5 | 80 |
| 94 | Adjusting the frequency of an autonomous push pull converter for wireless power transfer by varying the equivalent resonant capacitance through balanced DC voltage control. , 2015, , . | | 0 |
| 95 | Scalability Analysis of SIMO Non-Radiative Resonant Wireless Power Transfer Systems Based on Circuit Models. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2574-2583. | 3.5 | 25 |
| 96 | Improved Coupling Design of Contactless Slipring for Rotary Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 288-295. | 3.7 | 13 |
| 97 | Multiphase Inductive Power Transfer Box Based on a Rotating Magnetic Field. IEEE Transactions on Industrial Electronics, 2015, 62, 795-802. | 5.2 | 26 |
| 98 | A Contactless Slipring System Based on Axially Traveling Magnetic Field. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 280-287. | 3.7 | 9 |
| 99 | Analysis of Flux Leakage of a 3-D Inductive Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 205-214. | 3.7 | 8 |
| 100 | Comparison of two high frequency converters for capacitive power transfer. , 2014, , . | | 37 |
| 101 | Through-Hole Contactless Slipring System Based on Rotating Magnetic Field for Rotary Applications. IEEE Transactions on Industry Applications, 2014, 50, 3644-3655. | 3.3 | 30 |
| 102 | A resonant compensation method for improving the performance of capacitively coupled power transfer system. , 2014, , . | | 22 |
| 103 | Indoor WiFi energy harvester with multiple antenna for low-power wireless applications. , 2014, , . | | 15 |
| 104 | Basic design principle of current-fed energy injection converters. , 2014, , . | | 1 |
| 105 | Wireless electric power transfer based on Acoustic Energy through conductive media. , 2014, , . | | 16 |
| 106 | Orthogonal experimental design of polydimethylsiloxane curing for the design of low-frequency vibrational energy harvester. Journal of Intelligent Material Systems and Structures, 2014, 25, 2228-2234. | 1.4 | 7 |
| 107 | Evolutionary multi-objective optimization of H<inf>∞</inf> controller for inductive power transfer system. , 2014, , . | | 0 |
| 108 | A Double Stator Through-hole Type Contactless Slipring for Rotary Wireless Power Transfer Applications. IEEE Transactions on Energy Conversion, 2014, 29, 426-434. | 3.7 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Improved autonomous currentâ€fed pushâ€“pull resonant inverter. IET Power Electronics, 2014, 7, 2103-2110. | 1.5 | 19 |
| 110 | Maintaining middle zero voltage switching operation of parallelâ€“parallel tuned wireless power transfer system under bifurcation. IET Power Electronics, 2014, 7, 78-84. | 1.5 | 27 |
| 111 | A current-fed energy injection power converter for wireless power transfer applications. , 2013, , . | | 1 |
| 112 | Autonomous synchronous rectifier for heart pump applications. , 2013, , . | | 2 |
| 113 | Wireless charging pad based on travelling magnetic field for portable consumer electronics. , 2013, , . | | 19 |
| 114 | A Capacitively Coupled Contactless Matrix Charging Platform With Soft Switched Transformer Control. IEEE Transactions on Industrial Electronics, 2013, 60, 249-260. | 5.2 | 105 |
| 115 | Shifting stable operating points of bifurcated IPT systems by time delay perturbation. Electronics Letters, 2013, 49, 615-617. | 0.5 | 4 |
| 116 | Wirelessly powered microfluidic sensor and actuator systems. , 2013, , . | | 1 |
| 117 | An overview of capacitively coupled power transfer — A new contactless power transfer solution. , 2013, , . | | 33 |
| 118 | Contactless Slipring System based on rotating magnetic field principle for rotary applications. , 2013, , . | | 8 |
| 119 | Design methodology for inductive power transfer systems targeting high power implantable devices. , 2013, , . | | 8 |
| 120 | Pulse density modulated control patterns for inductively powered implantable devices based on energy injection control. IET Power Electronics, 2013, 6, 1051-1057. | 1.5 | 28 |
| 121 | Fuzzy logic-based directional full-range tuning control of wireless power pickups. IET Power Electronics, 2012, 5, 773-781. | 1.5 | 24 |
| 122 | A Direct ACâ€“AC Converter for Inductive Power-Transfer Systems. IEEE Transactions on Power Electronics, 2012, 27, 661-668. | 5.4 | 145 |
| 123 | Comparative Study of CCPT Systems With Two Different Inductor Tuning Positions. IEEE Transactions on Power Electronics, 2012, 27, 294-306. | 5.4 | 66 |
| 124 | A new rectifier with combined power flow control capability for a series-tuned inductive-power-transfer receiver. , 2012, , . | | 3 |
| 125 | Collective Robot Navigation Using Diffusion Limited Aggregation. Lecture Notes in Computer Science, 2012, , 266-276. | 1.0 | 7 |
| 126 | A contactless slipring system by means of axially travelling magnetic field. , 2012, , . | | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Power Flow Control Based Solely on Slow Feedback Loop for Heart Pump Applications. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 279-286. | 2.7 | 17 |
| 128 | Modelling and Parameters Identification of Through-Hole Type Wind Turbine Contactless Sliprings. Engineering, 2012, 04, 272-283. | 0.4 | 17 |
| 129 | Implicit adaptive controller for wireless power pickups. , 2011, , . | | 6 |
| 130 | Study on robust controller design for inductively coupled power transfer system. , 2011, , . | | 2 |
| 131 | Effect of series tuning inductor position on power transfer capability of CCPT system. Electronics Letters, 2011, 47, 136. | 0.5 | 4 |
| 132 | Investigating a H<inf>∞</inf> control method considering frequency uncertainty for CLC type Inductively Coupled Power Transfer system. , 2011, , . | | 9 |
| 133 | A novel detached magnetic coupling structure for contactless power transfer. , 2011, , . | | 17 |
| 134 | A contactless charging platform for swarm robots. , 2011, , . | | 9 |
| 135 | A novel MPPT algorithm for load protection based on output sensing control. , 2011, , . | | 18 |
| 136 | Multiple soft-switching operating points-based power flow control of contactless power transfer systems. IET Power Electronics, 2011, 4, 725. | 1.5 | 13 |
| 137 | Modelling and analysis of a capacitively coupled contactless power transfer system. IET Power Electronics, 2011, 4, 808. | 1.5 | 109 |
| 138 | Minimizing Power Loss in Air-Cored Coils for TET Heart Pump Systems. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2011, 1, 412-419. | 2.7 | 17 |
| 139 | Frequency bifurcation phenomenon study of a soft switched push-pull contactless power transfer system. , 2011, , . | | 12 |
| 140 | Efficient Power-Transfer Capability Analysis of the TET System Using the Equivalent Small Parameter Method. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 272-282. | 2.7 | 27 |
| 141 | Integration of supercapacitors into wirelessly charged biomedical sensors. , 2011, , . | | 18 |
| 142 | A contactless power transfer system with capacitively coupled matrix pad. , 2011, , . | | 20 |
| 143 | Primary Current Generation for a Contactless Power Transfer System Using Free Oscillation and Energy Injection Control. Journal of Power Electronics, 2011, 11, 256-263. | 0.9 | 12 |
| 144 | Development of a push-pull current doubler synchronous rectifier for powering heart pumps. , 2010, , . | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | A Novel Low Temperature Transcutaneous Energy Transfer System Suitable for High Power Implantable Medical Devices: Performance and Validation in Sheep. Artificial Organs, 2010, 34, E160-7. | 1.0 | 27 |
| 146 | A generalized coupling model for Capacitive Power Transfer systems. , 2010, , . | | 57 |
| 147 | Linearly tuned wireless power pick-up. , 2010, , . | | 4 |
| 148 | 2-D alignment analysis of capacitively coupled contactless power transfer systems. , 2010, , . | | 25 |
| 149 | Parallel tuned contactless power pickup using saturable core reactor. , 2010, , . | | 12 |
| 150 | Harmonic analysis of voltage-fed full-bridge converter for TET application. , 2010, , . | | 14 |
| 151 | Low-Cost Autonomous 3-D Monitoring Systems for Hydraulic Engineering Environments and Applications With Limited Accuracy Requirements. IEEE Sensors Journal, 2010, 10, 331-339. | 2.4 | 3 |
| 152 | Nonlinear modeling and analysis of a practical controllable rectifier. , 2009, , . | | 1 |
| 153 | Determining optimal tuning capacitor values of TET system for achieving maximum power transfer. Electronics Letters, 2009, 45, 448. | 0.5 | 13 |
| 154 | Modeling a contactless power supply using GSSA method. , 2009, , . | | 41 |
| 155 | Coupling study of a rotary Capacitive Power Transfer system. , 2009, , . | | 67 |
| 156 | Experimental Study of a TET System for Implantable Biomedical Devices. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 370-378. | 2.7 | 57 |
| 157 | A Wireless Power Pickup Based on Directional Tuning Control of Magnetic Amplifier. IEEE Transactions on Industrial Electronics, 2009, 56, 2771-2781. | 5.2 | 105 |
| 158 | Steady state analysis of a capacitively coupled contactless power transfer system. , 2009, , . | | 30 |
| 159 | Determining Multiple Steady-State ZCS Operating Points of a Switch-Mode Contactless Power Transfer System. IEEE Transactions on Power Electronics, 2009, 24, 416-425. | 5.4 | 105 |
| 160 | A Frequency Control Method for Regulating Wireless Power to Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 22-29. | 2.7 | 484 |
| 161 | A Novel Contactless Battery Charging System for Soccer Playing Robot. , 2008, , . | | 116 |
| 162 | Modelling and Control of an Inverter for VSC-HVDC Transmission System with Passive Load. , 2008, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Powering Implantable Telemetry Devices from Localized Magnetic Fields. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2331-5. | 0.5 | 22 |
| 164 | Novel technology for the provision of power to implantable physiological devices. Journal of Applied Physiology, 2007, 102, 1658-1663. | 1.2 | 35 |
| 165 | Determining the variable inductance range for an LCL wireless power pick-up. , 2007, , . | | 12 |
| 166 | Switching Frequency Analysis of Dynamically Detuned ICPT Power Pick-ups. , 2006, , . | | 25 |
| 167 | A new contactless power pick-up with continuous variable inductor control using magnetic amplifier. , 2006, , . | | 21 |
| 168 | Development of a Direct AC-AC Converter Based on a DSPACE Platform. , 2006, , . | | 9 |
| 169 | Improved Power Flow Control for Contactless Moving Sensor Applications. IEEE Power Electronics Letters, 2004, 2, 135-138. | 1.1 | 90 |
| 170 | A new high frequency current generation method for inductive power transfer applications. , 0, , . | | 18 |