

# Jose M Burdio

## List of Publications by Year in descending order

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222  
papers

5,953  
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66343

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222  
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222  
docs citations

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times ranked

2317  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Induction Heating of Two Magnetically Independent Loads With a Single Transmitter. IEEE Transactions on Power Electronics, 2022, 37, 3391-3402.   | 7.9 | 2         |
| 2  | Power factor correction stage and matrix zero voltage switching resonant inverter for domestic induction heating appliances. IET Power Electronics, 2022, 15, 1134-1143.                                  | 2.1 | 3         |
| 3  | High-Performance Class-E Quasi-Resonant Inverter for Domestic Induction Heating Applications. , 2022, , .   |     | 3         |
| 4  | Design and Optimization of a SiC-Based Versatile Bidirectional High-Voltage Waveform Generator. , 2022, , .   |     | 2         |
| 5  | Induction Heating Cookers: A Path Towards Decarbonization Using Energy Saving Cookers. , 2022, , .  |     | 1         |
| 6  | Multiphase PFC Rectifier and Modulation Strategies for Domestic Induction Heating Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 6424-6433.   | 7.9 | 11        |
| 7  | Asymmetrical Noncomplementary Modulation Strategies for Independent Power Control in Multioutput Resonant Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 629-637. | 5.4 | 5         |
| 8  | Multi-Electrode Architecture Modeling and Optimization for Homogeneous Electroporation of Large Volumes of Tissue. Energies, 2021, 14, 1892.  | 3.1 | 4         |
| 9  | Large-Signal Electrical Parameter Characterization in Inductive Power Transfer Systems. , 2021, , .   |     | 1         |
| 10 | Constant-Current Gate Driver for GaN HEMTs Applied to Resonant Power Conversion. Energies, 2021, 14, 2377.  | 3.1 | 5         |
| 11 | Power Factor Correction using Asymmetrical Modulation for Flexible Induction Heating Appliances. , 2021, , .  |     | 2         |
| 12 | Double Inverter with Common Resonant Capacitor for Elliptical Coil Induction Heating Devic. , 2021, , .   |     | 0         |
| 13 | Domestic induction heating system with standard primary inductor for reduced-size and high distance cookware. , 2021, , .   |     | 1         |
| 14 | Matrix ZVS Resonant Inverter for Domestic Induction Heating Applications Featuring a Front-End PFC Stage. , 2021, , .   |     | 2         |
| 15 | Multiple-Output Generator for Omnidirectional Electroporation and Real-Time Process Monitoring. , 2021, , .   |     | 1         |
| 16 | Mains-Synchronized Pulse Density Modulation Strategy Applied to a ZVS Resonant Matrix Inverter. IEEE Transactions on Industrial Electronics, 2021, 68, 10835-10844.                                       | 7.9 | 6         |
| 17 | GaN-Based Versatile Waveform Generator for Biomedical Applications of Electroporation. IEEE Access, 2020, 8, 97196-97203.   | 4.2 | 16        |
| 18 | Analysis and Modeling of the Forces Exerted on the Cookware in Induction Heating Applications. IEEE Access, 2020, 8, 131178-131187.   | 4.2 | 13        |

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|----|--|-----|-----------|
| 19 | An Inductive Power Transfer System Case Study: Large Gap in Low Power Wireless Power Supply. , 2020, , .   |     | 3         |
| 20 | A front-end PFC stage for improved performance of flexible induction heating appliances. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, S115-S121.                     | 0.6 | 2         |
| 21 | Electro-thermal modeling of irreversible electroporation and validation method of electric field distribution. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, S41-S50. | 0.6 | 3         |
| 22 | Real-Time Impedance Monitoring During Electroporation Processes in Vegetal Tissue Using a High-Performance Generator. Sensors, 2020, 20, 3158.   | 3.8 | 12        |
| 23 | Design methodology of high performance domestic induction heating systems under worktop. IET Power Electronics, 2020, 13, 300-306.   | 2.1 | 10        |
| 24 | Adapting of Non-Metallic Cookware for Induction Heating Technology via Thin-Layer Non-Magnetic Conductive Coatings. IEEE Access, 2020, 8, 11219-11227.   | 4.2 | 15        |
| 25 | Multi-Output Resonant Power Converters for Domestic Induction Heating. , 2020, , .   |     | 2         |
| 26 | Multiresonant Power Converter for Improved Dual-Frequency Induction Heating. IEEE Transactions on Power Electronics, 2019, 34, 2097-2103.  | 7.9 | 15        |
| 27 | A Versatile Large-Signal High-Frequency Arbitrary Waveform Generator Using GaN Devices. , 2019, , .  |     | 11        |
| 28 | High-Frequency GaN-Based Induction Heating Versatile Module for Flexible Cooking Surfaces. , 2019, , .   |     | 9         |
| 29 | WBG Semiconductor and Capacitor Technology Evaluation for Pulsed Electroporation Applications. , 2019, , .   |     | 2         |
| 30 | An analysis of electromagnetic forces on cooking vessels used in domestic induction heating appliances oriented to identify the properties of materials. , 2019, , .                               |     | 3         |
| 31 | Multiple-Output ZVS Resonant Inverter Architecture for Flexible Induction Heating Appliances. IEEE Access, 2019, 7, 157046-157056.   | 4.2 | 27        |
| 32 | Histopathological and Ultrastructural Changes after Electroporation in Pig Liver Using Parallel-Plate Electrodes and High-Performance Generator. Scientific Reports, 2019, 9, 2647.                | 3.3 | 29        |
| 33 | Industrial Electronics for Biomedicine: A New Cancer Treatment Using Electroporation. IEEE Industrial Electronics Magazine, 2019, 13, 6-18.  | 2.6 | 23        |
| 34 | Asymmetrical Modulation Strategies for Partially Covered Inductors in Flexible Induction Heating Appliances. , 2019, , .   |     | 0         |
| 35 | Design of a Three Inductor System with One Externally Fed for an Inductively Coupled Heating Application. , 2019, , .  |     | 4         |
| 36 | High-Performance and Cost-Effective ZCS Matrix Resonant Inverter for Total Active Surface Induction Heating Appliances. IEEE Transactions on Power Electronics, 2019, 34, 117-125.                 | 7.9 | 22        |

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|----|--|-----|-----------|
| 37 | FPGA-Based Resonant Load Identification Technique for Flexible Induction Heating Appliances. IEEE Transactions on Industrial Electronics, 2018, 65, 9421-9428.   | 7.9 | 25        |
| 38 | A Flexible Cooking Zone Composed of Partially Overlapped Inductors. IEEE Transactions on Industrial Electronics, 2018, 65, 7762-7771.  | 7.9 | 25        |
| 39 | Design and Experimental Analysis of PFC Rectifiers for Domestic Induction Heating Applications. IEEE Transactions on Power Electronics, 2018, 33, 6582-6594.   | 7.9 | 33        |
| 40 | A Versatile Resonant Tank Identification Methodology for Induction Heating Systems. IEEE Transactions on Power Electronics, 2018, 33, 1897-1901.   | 7.9 | 40        |
| 41 | Inductor System Evaluation for Simultaneous Wireless Energy Transfer and Induction Heating. , 2018, , .  |     | 5         |
| 42 | A Versatile Hardware Platform for Teaching Resonant Power Conversion Courses. , 2018, , .  |     | 1         |
| 43 | High-performance and cost-effective single-ended induction heating appliance using new mos-controlled thyristors. , 2018, , .  |     | 1         |
| 44 | High frequency electroporation for biomedical applications using GaN gate injection transistors. , 2018, , .   |     | 1         |
| 45 | Soft-transient modulation strategy for improved efficiency and EMC performance of PFC converters applied to flexible induction heating appliances. , 2018, , .   |     | 6         |
| 46 | Induction Heating. , 2018, , 265-287.  |     | 5         |
| 47 | High power density PCB coil array applied to domestic induction heating appliances. , 2018, , .  |     | 3         |
| 48 | An Inter-Disciplinary Approach to Teaching Biomedical Electronics with an Electroporation-Applied Example. , 2018, , .   |     | 2         |
| 49 | Interleaved Resonant Boost Inverter Featuring SiC Module for High-Performance Induction Heating. IEEE Transactions on Power Electronics, 2017, 32, 1018-1029.  | 7.9 | 28        |
| 50 | Design of power converters for induction heating applications taking advantage of wide-bandgap semiconductors. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 483-488. | 0.9 | 10        |
| 51 | Improved Litz wire manufacture process using resonant power converter-based induction heating. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 476-482.                 | 0.9 | 3         |
| 52 | Long-term effectiveness of irreversible electroporation in a murine model of colorectal liver metastasis. Scientific Reports, 2017, 7, 44821.  | 3.3 | 9         |
| 53 | Multiple-output ZCS resonant inverter for multi-coil induction heating appliances. , 2017, , .   |     | 7         |
| 54 | Analysis and design of tubular coils for wireless inductive power transfer systems. , 2017, , .  |     | 11        |

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|----|--|-----|-----------|
| 55 | Modeling of domestic induction heating systems with non-linear saturable loads. , 2017, , .  |     | 12        |
| 56 | High performance boost inverter featuring GaN-based devices for electro surgical units. , 2017, , .  |     | 7         |
| 57 | Design and Optimization of Small Inductors on Extra-Thin PCB for Flexible Cooking Surfaces. IEEE Transactions on Industry Applications, 2017, 53, 371-379.   | 4.9 | 15        |
| 58 | Design method for domestic induction heating systems with a larger load distance. , 2017, , .  |     | 1         |
| 59 | Active power factor corrector for high power domestic induction heating appliances. , 2017, , .  |     | 4         |
| 60 | High performance full-bridge multi-inverter featuring 900-V SiC devices for domestic induction heating applications. EPE Journal (European Power Electronics and Drives Journal), 2017, 27, 143-152. | 0.7 | 4         |
| 61 | Power losses in flux concentrators of inductor systems for induction cooktops. , 2017, , .   |     | 0         |
| 62 | Design and Implementation of a Test-Bench for Efficiency Measurement of Domestic Induction Heating Appliances. Energies, 2016, 9, 636.   | 3.1 | 3         |
| 63 | High frequency and power density gallium nitride based inverter for magneto fluid hyperthermia. , 2016, , .  |     | 1         |
| 64 | Pulse density modulated control for the series resonant multi-inverter for induction heating applications. , 2016, , .   |     | 3         |
| 65 | Design of efficient loads for domestic induction heating applications by means of non-magnetic thin metallic layers. , 2016, , .   |     | 2         |
| 66 | Assymmetric duty-cycle phase-shift modulation for power management in double half-bridge inverter with partly coupled inductive loads. , 2016, , .   |     | 0         |
| 67 | Multiple-output boost resonant inverter for high efficiency and cost-effective induction heating applications. , 2016, , .   |     | 7         |
| 68 | Analytical solution of the induced currents in multilayer cylindrical conductors under external electromagnetic sources. Applied Mathematical Modelling, 2016, 40, 10667-10678.                      | 4.2 | 11        |
| 69 | Irreversible electroporation of the liver: is there a safe limit to the ablation volume?. Scientific Reports, 2016, 6, 23781.  | 3.3 | 22        |
| 70 | Calculation of losses in PCB windings for multi-coil contactless charging systems. , 2016, , .   |     | 0         |
| 71 | Full-bridge series resonant multi-inverter featuring new 900-V SiC devices for improved induction heating appliances. , 2016, , .  |     | 5         |
| 72 | Heat Management in Power Converters: From State of the Art to Future Ultrahigh Efficiency Systems. IEEE Transactions on Power Electronics, 2016, 31, 7896-7908.                                      | 7.9 | 117       |

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|----|---|-----|-----------|
| 73 | Normal-Mode Decomposition of Surface Power Distribution in Multiple-Coil Induction Heating Systems. IEEE Transactions on Magnetics, 2016, 52, 1-8.  | 2.1 | 12        |
| 74 | A Versatile Multilevel Converter Platform for Cancer Treatment Using Irreversible Electroporation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 236-242.                           | 5.4 | 32        |
| 75 | Dual-Output Boost Resonant Full-Bridge Topology and its Modulation Strategies for High-Performance Induction Heating Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 3554-3561.              | 7.9 | 48        |
| 76 | Operating Conditions Monitoring for High Power Density and Cost-Effective Resonant Power Converters. IEEE Transactions on Power Electronics, 2016, 31, 488-496.   | 7.9 | 8         |
| 77 | Design and Implementation of PCB Inductors With Litz-Wire Structure for Conventional-Size Large-Signal Domestic Induction Heating Applications. IEEE Transactions on Industry Applications, 2015, 51, 2434-2442.  | 4.9 | 33        |
| 78 | Optimized 4-coil inductor system arrangement for induction heating appliances. , 2015, , .  |     | 3         |
| 79 | Minimization of vias in PCB implementations of planar coils with litz-wire structure. , 2015, , .   |     | 8         |
| 80 | A review of pulse generation topologies for clinical electroporation. , 2015, , .   |     | 3         |
| 81 | Series resonant multi-inverter prototype for domestic induction heating. , 2015, , .  |     | 1         |
| 82 | Ultra high efficiency adaptable class-DE inverter for resonant power conversion. , 2015, , .  |     | 0         |
| 83 | Performance Evaluation of Graphite Thin Slabs for Induction Heating Domestic Applications. IEEE Transactions on Industry Applications, 2015, 51, 2398-2404.   | 4.9 | 8         |
| 84 | Advanced induction heating appliances using high-voltage GaN gate injection transistors. , 2015, , .  |     | 6         |
| 85 | A Comparative Evaluation of SiC Power Devices for High-Performance Domestic Induction Heating. IEEE Transactions on Industrial Electronics, 2015, 62, 4795-4804.  | 7.9 | 44        |
| 86 | Soft-Stop Optimal Trajectory Control for Improved Performance of the Series-Resonant Multiinverter for Domestic Induction Heating Applications. IEEE Transactions on Industrial Electronics, 2015, 62, 6251-6259. | 7.9 | 15        |
| 87 | Phase-shift modulation in double half-bridge inverter with common resonant capacitor for induction heating appliances. IET Power Electronics, 2015, 8, 1128-1136.   | 2.1 | 23        |
| 88 | Analytical Model of the Half-Bridge Series Resonant Inverter for Improved Power Conversion Efficiency and Performance. IEEE Transactions on Power Electronics, 2015, 30, 4128-4143.                               | 7.9 | 52        |
| 89 | Frequency-Dependent Resistance of Planar Coils in Printed Circuit Board With Litz Structure. IEEE Transactions on Magnetics, 2014, 50, 1-9.   | 2.1 | 45        |
| 90 | Analysis and design of high-efficiency resonant inverters for domestic induction heating applications. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 201-208.                        | 0.6 | 11        |

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| 91  | Soft-stop optimal trajectory control for improved operation of the series resonant multi-inverter. , 2014, , .  |     | 1         |
| 92  | Efficiency improvement of switched-mode power converters under light-load conditions. , 2014, , .   |     | 0         |
| 93  | Experimental evaluation of dynamic load changes in flexible induction heating appliances. , 2014, , .   |     | 2         |
| 94  | Direct AC-AC Resonant Boost Converter for Efficient Domestic Induction Heating Applications. IEEE Transactions on Power Electronics, 2014, 29, 1128-1139.   | 7.9 | 67        |
| 95  | AC Power Losses Model for Planar Windings With Rectangular Cross-Sectional Conductors. IEEE Transactions on Power Electronics, 2014, 29, 23-28.   | 7.9 | 61        |
| 96  | Induction Heating Technology and Its Applications: Past Developments, Current Technology, and Future Challenges. IEEE Transactions on Industrial Electronics, 2014, 61, 2509-2520.                                | 7.9 | 570       |
| 97  | SiC BJT-based full-ZCS quasi-resonant converter with improved efficiency for induction heating applications. , 2014, , .  |     | 2         |
| 98  | Performance evaluation of graphite thin slabs for induction heating domestic applications. , 2014, , .  |     | 0         |
| 99  | Introduction to the Special Section on Induction Heating Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2504-2508.   | 7.9 | 13        |
| 100 | Design and Implementation of a High-Efficiency Multiple-Output Resonant Converter for Induction Heating Applications Featuring Wide Bandgap Devices. IEEE Transactions on Power Electronics, 2014, 29, 2539-2549. | 7.9 | 70        |
| 101 | Efficient and Cost-Effective ZCS Direct AC-AC Resonant Converter for Induction Heating. IEEE Transactions on Industrial Electronics, 2014, 61, 2546-2555.   | 7.9 | 45        |
| 102 | Loss analysis of multistranded twisted wires by using 3D-FEA simulation. , 2014, , .  |     | 7         |
| 103 | FEA-Based Model of Elliptic Coils of Rectangular Cross Section. IEEE Transactions on Magnetics, 2014, 50, 1-7.  | 2.1 | 11        |
| 104 | Design and implementation of PCB inductors with litz-wire structure for conventional-size large-signal domestic induction heating applications. , 2014, , .   |     | 20        |
| 105 | Multi-MOSFET-Based Series Resonant Inverter for Improved Efficiency and Power Density Induction Heating Applications. IEEE Transactions on Power Electronics, 2014, 29, 4301-4312.                                | 7.9 | 36        |
| 106 | A Class-E Direct AC-AC Converter With Multicycle Modulation for Induction Heating Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2521-2530.  | 7.9 | 63        |
| 107 | Full-bridge quasi-resonant class-DE inverter for optimized high frequency operation with GaN HEMT devices. , 2014, , .  |     | 3         |
| 108 | Improved Operation of SiC-BJT-Based Series Resonant Inverter With Optimized Base Drive. IEEE Transactions on Power Electronics, 2014, 29, 5097-5101.  | 7.9 | 30        |

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| 109 | Thermal design optimization of a high-efficiency resonant converter based on multi-MOSFET cells using the Pareto analysis. , 2014, , .  |     | 1         |
| 110 | High-efficiency parallel quasi-resonant current source inverter featuring SiC metal-oxide semiconductor field-effect transistors for induction heating systems with coupled inductors. IET Power Electronics, 2013, 6, 183-191. | 2.1 | 30        |
| 111 | High-efficiency high-power density series resonant inverter based on a multi-Mosfet cell implementation. , 2013, , .  |     | 3         |
| 112 | Printed circuit board implementation of small inductors for domestic induction heating applications using a planar litz wire structure. , 2013, , .   |     | 11        |
| 113 | Induction Heating Appliances: Toward More Flexible Cooking Surfaces. IEEE Industrial Electronics Magazine, 2013, 7, 35-47.  | 2.6 | 133       |
| 114 | A comparative evaluation of high-efficiency resonant converters for domestic induction heating. , 2013, , .   |     | 2         |
| 115 | Series resonant inverter with active snubber circuit for improved efficiency operation applied to domestic induction heating. , 2013, , .   |     | 5         |
| 116 | Half-bridge resonant inverter with SiC cascode applied to domestic induction heating. , 2013, , .   |     | 6         |
| 117 | Multi-platform simulator for resonant power converter courses. , 2013, , .  |     | 1         |
| 118 | Synthesized voice videos for reusable learning objects. , 2013, , .   |     | 0         |
| 119 | Quantitative Evaluation of Induction Efficiency in Domestic Induction Heating Applications. IEEE Transactions on Magnetics, 2013, 49, 1382-1389.  | 2.1 | 73        |
| 120 | Class-D/DE Dual-Mode-Operation Resonant Converter for Improved-Efficiency Domestic Induction Heating System. IEEE Transactions on Power Electronics, 2013, 28, 1274-1285.   | 7.9 | 102       |
| 121 | Modulation Scheme for Improved Operation of an RB-IGBT-Based Resonant Inverter Applied to Domestic Induction Heating. IEEE Transactions on Industrial Electronics, 2013, 60, 2066-2073.   | 7.9 | 68        |
| 122 | Analysis of the Mutual Inductance of Planar-Lumped Inductive Power Transfer Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 410-420.  | 7.9 | 128       |
| 123 | Computational Modeling of Two Partly Coupled Coils Supplied by a Double Half-Bridge Resonant Inverter for Induction Heating Appliances. IEEE Transactions on Industrial Electronics, 2013, 60, 3092-3105.                       | 7.9 | 76        |
| 124 | Elliptic flat-type inductor for low-cost flexible active surface implementations of domestic induction heating appliances. , 2013, , .  |     | 2         |
| 125 | Mutual Impedance of Small Ring-Type Coils for Multiwinding Induction Heating Appliances. IEEE Transactions on Power Electronics, 2013, 28, 1025-1035.   | 7.9 | 44        |
| 126 | Upgrading of double series-resonant half-bridge inverter to improve efficiency. Electronics Letters, 2013, 49, 1091-1092.   | 1.0 | 2         |

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|-----|---|-----|-----------|
| 127 | Multiple-Output Resonant Matrix Converter for Multiple Induction Heaters. IEEE Transactions on Industry Applications, 2012, 48, 1387-1396.  | 4.9 | 66        |
| 128 | PCB multi-track coils for domestic induction heating applications. , 2012, , .  |     | 2         |
| 129 | Optimal gate drive circuit design for ZVS operation of SiC-JFET devices. Electronics Letters, 2012, 48, 1621-1622.  | 1.0 | 4         |
| 130 | Educational opportunities based on the university-industry synergies in an open innovation framework. European Journal of Engineering Education, 2012, 37, 15-28.                     | 2.3 | 23        |
| 131 | Frequency-dependent modelling of domestic induction heating systems using numerical methods for accurate time-domain simulation. IET Power Electronics, 2012, 5, 1291.                | 2.1 | 32        |
| 132 | First harmonic equivalent impedance of coupled inductive loads for induction heating applications. , 2012, , .  |     | 5         |
| 133 | Practical issues when calculating AC losses for magnetic devices in PCB implementations. , 2012, , .  |     | 11        |
| 134 | High-efficiency power converters for domestic induction heating applications. , 2012, , .   |     | 3         |
| 135 | Intermodulation distortion in 1SW-ZVS multi-inverter for induction heating home appliances. , 2012, , .   |     | 8         |
| 136 | Half-bridge resonant inverter for domestic induction heating based on silicon carbide technology. , 2012, , .   |     | 10        |
| 137 | Dual-mode-operation half-bridge resonant converter for improved-efficiency induction heating system. , 2012, , .  |     | 8         |
| 138 | An application example to gain an insight into the electromagnetic quasistatic approach concept for graduate students. , 2011, , .  |     | 0         |
| 139 | Analysis of the coupling between small ring-type coils used in adaptable-size burners for domestic induction heating hobs. , 2011, , .  |     | 1         |
| 140 | Configurable snubber network for efficiency optimisation of resonant converters applied to multi-load induction heating. Electronics Letters, 2011, 47, 989.                          | 1.0 | 25        |
| 141 | FEA tool based model of partly coupled coils used in domestic induction cookers. , 2011, , .  |     | 7         |
| 142 | Passive network equivalent of an induction system for domestic cookers applications based on FEA tool simulation. , 2011, , .   |     | 3         |
| 143 | Multiple-output resonant matrix converter for multiple-inductive-load systems. , 2011, , .  |     | 12        |
| 144 | Analysis and Modeling of Planar Concentric Windings Forming Adaptable-Diameter Burners for Induction Heating Appliances. IEEE Transactions on Power Electronics, 2011, 26, 1546-1558. | 7.9 | 59        |

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| 145 | High Frequency Pulse Density Modulation for cost-effective and efficient multiple induction-heater architectures. , 2011, , .  |     | 2         |
| 146 | Silicon carbide JFET resonant inverter for induction heating home appliances. , 2011, , .  |     | 10        |
| 147 | Phase-shift control of dual half-bridge inverter feeding coupled loads for induction heating purposes. Electronics Letters, 2011, 47, 670.   | 1.0 | 34        |
| 148 | Real-Time FPGA-Based Hardware-in-the-Loop Simulation Test Bench Applied to Multiple-Output Power Converters. IEEE Transactions on Industry Applications, 2011, 47, 853-860.  | 4.9 | 85        |
| 149 | A Versatile Power Electronics Test-Bench Architecture Applied to Domestic Induction Heating. IEEE Transactions on Industrial Electronics, 2011, 58, 998-1007.  | 7.9 | 75        |
| 150 | Series Resonant Multiinverter with Discontinuous-Mode Control for Improved Light-Load Operation. IEEE Transactions on Industrial Electronics, 2011, 58, 5163-5171.   | 7.9 | 78        |
| 151 | COUPLING IMPEDANCE BETWEEN PLANAR COILS INSIDE A LAYERED MEDIA. Progress in Electromagnetics Research, 2011, 112, 381-396.   | 4.4 | 16        |
| 152 | Series resonant inverter with selective harmonic operation applied to all-metal domestic induction heating. IET Power Electronics, 2011, 4, 587.   | 2.1 | 58        |
| 153 | Educational activities and results obtained from a University-Industry collaborative framework experience. , 2011, , .   |     | 1         |
| 154 | Pulse delay control strategy for improved power control and efficiency in multiple resonant load systems. , 2011, , .  |     | 4         |
| 155 | An application of the impedance boundary condition for the design of coils used in domestic induction heating systems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1616-1625. | 0.9 | 4         |
| 156 | Efficiency-Oriented Design of ZVS Half-Bridge Series Resonant Inverter With Variable Frequency Duty Cycle Control. IEEE Transactions on Power Electronics, 2010, 25, 1671-1674.  | 7.9 | 158       |
| 157 | Domestic Induction Appliances. IEEE Industry Applications Magazine, 2010, 16, 39-47.   | 0.4 | 164       |
| 158 | Series resonant multi-inverter with discontinuous-mode control for improved light-load operation. , 2010, , .  |     | 11        |
| 159 | Resonant inverter topologies for three concentric planar windings applied to domestic induction heating. Electronics Letters, 2010, 46, 1225.  | 1.0 | 33        |
| 160 | Modeling of adaptable-diameter burners formed by concentric planar windings for domestic induction heating applications. , 2010, , .   |     | 1         |
| 161 | Experimental setup for inductive efficiency measurements of domestic induction systems based on energy balance. , 2010, , .  |     | 6         |
| 162 | A new single-instrument technique for parenchyma division and hemostasis in liver resection: a clinical feasibility study. American Journal of Surgery, 2010, 200, e75-e80.  | 1.8 | 20        |

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| 163 | Multiple-output resonant inverter topology for multi-inductor loads. , 2010, , .  |     | 12        |
| 164 | Real-time FPGA-based Hardware-in-the-Loop development test-bench for multiple output power converters. , 2010, , .  |     | 16        |
| 165 | Identification of the material properties used in domestic induction heating appliances for system-level simulation and design purposes. , 2010, , .  |     | 12        |
| 166 | Series-Resonant Multiinverter for Multiple Induction Heaters. IEEE Transactions on Power Electronics, 2010, 25, 2860-2868.  | 7.9 | 115       |
| 167 | Embedded Ring-Type Inductors Modeling With Application to Induction Heating Systems. IEEE Transactions on Magnetics, 2009, 45, 5333-5343.   | 2.1 | 20        |
| 168 | Load-Adaptive Control Algorithm of Half-Bridge Series Resonant Inverter for Domestic Induction Heating. IEEE Transactions on Industrial Electronics, 2009, 56, 3106-3116.   | 7.9 | 200       |
| 169 | System-on-programmable-chip-based versatile modulation architecture applied to domestic induction heating. , 2009, , .  |     | 2         |
| 170 | Research and development of a new RF-assisted device for bloodless rapid transection of the liver: Computational modeling and in vivo experiments. BioMedical Engineering OnLine, 2009, 8, 6.                             | 2.7 | 28        |
| 171 | Power Measurement by Output-Current Integration in Series Resonant Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 559-567.   | 7.9 | 33        |
| 172 | Laparoscopic blood-saving liver resection using a new radiofrequency-assisted device: preliminary report of an in vivo study with pig liver. Surgical Endoscopy and Other Interventional Techniques, 2008, 22, 1384-1391. | 2.4 | 17        |
| 173 | Versatile High-Frequency Inverter Module for Large-Signal Inductive Loads Characterization Up to 1.5 MHz and 7 kW. IEEE Transactions on Power Electronics, 2008, 23, 75-87.   | 7.9 | 28        |
| 174 | Efficiency model of planar loaded twisted-wire windings in a magnetic substrate for domestic induction heating appliances. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .                                | 0.0 | 3         |
| 175 | Modeling Mutual Impedances of Loaded Non-Coaxial Inductors for Induction Heating Applications. IEEE Transactions on Magnetics, 2008, 44, 4115-4118.   | 2.1 | 14        |
| 176 | The domestic induction heating appliance: An overview of recent research. IEEE Applied Power Electronics Conference and Exposition, 2008, , .   | 0.0 | 54        |
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