Jose M Burdio

List of Publications by Year
in descending order

222 papers	5,953 citations	66343 42 h-index	88630 70 g-index
222 all docs	222 docs citations	222 times ranked	2317 citing authors

#	Article	IF	Citations
1	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
2	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
3	Asymmetrical Voltage-Cancellation Control for Full-Bridge Series Resonant Inverters. IEEE Transactions on Power Electronics, 2004, 19, 461-469.	7.9	197
4	Domestic Induction Appliances. IEEE Industry Applications Magazine, 2010, 16, 39-47.	0.4	164
5	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
6	Frequency-dependent resistance in Litz-wire planar windings for domestic induction heating appliances. IEEE Transactions on Power Electronics, 2006, 21, 856-866.	7.9	144
7	Induction Heating Appliances: Toward More Flexible Cooking Surfaces. IEEE Industrial Electronics Magazine, 2013, 7, 35-47.	2.6	133
8	Analysis of the Mutual Inductance of Planar-Lumped Inductive Power Transfer Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 410-420.	7.9	128
9	A Two-Output Series-Resonant Inverter for Induction-Heating Cooking Appliances. IEEE Transactions on Power Electronics, 2005, 20, 815-822.	7.9	121
10	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
11	Series-Resonant Multiinverter for Multiple Induction Heaters. IEEE Transactions on Power Electronics, 2010, 25, 2860-2868.	7.9	115
12	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
13	FPGA Implementation of a Switching Frequency Modulation Circuit for EMI Reduction in Resonant Inverters for Induction Heating Appliances. IEEE Transactions on Industrial Electronics, 2008, 55, 11-20.	7.9	94
14	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
15	Analytical equivalent impedance for a planar circular induction heating system. IEEE Transactions on Magnetics, 2006, 42, 84-86.	2.1	81
16	Simple resistance calculation in litz-wire planar windings for induction cooking appliances. IEEE Transactions on Magnetics, 2005, 41, 1280-1288.	2.1	80
17	A Three-Level Converter and Its Application to Power Factor Correction. IEEE Transactions on Power Electronics, 2005, 20, 1319-1327.	7.9	79
18	Series Resonant Multiinverter with Discontinuous-Mode Control for Improved Light-Load Operation. IEEE Transactions on Industrial Electronics, 2011, 58, 5163-5171.	7.9	78

#	Article	IF	Citations
19	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
20	A Versatile Power Electronics Test-Bench Architecture Applied to Domestic Induction Heating. IEEE Transactions on Industrial Electronics, 2011, 58, 998-1007.	7.9	75
21	Quantitative Evaluation of Induction Efficiency in Domestic Induction Heating Applications. IEEE Transactions on Magnetics, 2013, 49, 1382-1389.	2.1	73
22	Modeling of Planar Spiral Inductors Between Two Multilayer Media for Induction Heating Applications. IEEE Transactions on Magnetics, 2006, 42, 3719-3729.	2.1	70
23	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
24	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
25	Direct ACâ€“AC Resonant Boost Converter for Efficient Domestic Induction Heating Applications. IEEE Transactions on Power Electronics, 2014, 29, 1128-1139.	7.9	67
26	Multiple-Output Resonant Matrix Converter for Multiple Induction Heaters. IEEE Transactions on Industry Applications, 2012, 48, 1387-1396.	4.9	66
27	Bipolar Saline-enhanced Electrode for Radiofrequency Ablation: Results of Experimental Study of in Vivo Porcine Liver. Radiology, 2003, 229, 447-456.	7.3	65
28	A Class-E Direct ACâ€“AC Converter With Multicycle Modulation for Induction Heating Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2521-2530.	7.9	63
29	AC Power Losses Model for Planar Windings With Rectangular Cross-Sectional Conductors. IEEE Transactions on Power Electronics, 2014, 29, 23-28.	7.9	61
30	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
31	Series resonant inverter with selective harmonic operation applied to all-metal domestic induction heating. IET Power Electronics, 2011, 4, 587.	2.1	58
32	FPGA-Based Power Measuring for Induction Heating Appliances Using Sigmaâ€“Delta A/D Conversion. IEEE Transactions on Industrial Electronics, 2007, 54, 1843-1852.	7.9	57
33	A unified discrete-time state-space model for switching converters. IEEE Transactions on Power Electronics, 1995, 10, 694-707.	7.9	54
34	The domestic induction heating appliance: An overview of recent research. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	54
35	Efficiency Optimization in ZVS Series Resonant Inverters With Asymmetrical Voltage-Cancellation Control. IEEE Transactions on Power Electronics, 2005, 20, 1036-1044.	7.9	52
36	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

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37	Large hepatic ablation with bipolar saline-enhanced radiofrequency: an experimental study in in vivo porcine liver with a novel approach. Journal of Surgical Research, 2003, 110, 193-201.	1.6	48
38	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
39	An FPGA-Based Digital Modulator for Full- or Half-Bridge Inverter Control. IEEE Transactions on Power Electronics, 2006, 21, 1479-1483.	7.9	45
40	Frequency-Dependent Resistance of Planar Coils in Printed Circuit Board With Litz Structure. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	45
41	Efficient and Cost-Effective ZCS Direct ACâ€“AC Resonant Converter for Induction Heating. IEEE Transactions on Industrial Electronics, 2014, 61, 2546-2555.	7.9	45
42	Mutual Impedance of Small Ring-Type Coils for Multiwinding Induction Heating Appliances. IEEE Transactions on Power Electronics, 2013, 28, 1025-1035.	7.9	44
43	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
44	Hepatic lesion ablation with bipolar saline-enhanced radiofrequency in the audible spectrum. Academic Radiology, 1999, 6, 680-686.	2.5	41
45	A Versatile Resonant Tank Identification Methodology for Induction Heating Systems. IEEE Transactions on Power Electronics, 2018, 33, 1897-1901.	7.9	40
46	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
47	Phase-shift control of dual half-bridge inverter feeding coupled loads for induction heating purposes. Electronics Letters, 2011, 47, 670.	1.0	34
48	Power Measurement by Output-Current Integration in Series Resonant Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 559-567.	7.9	33
49	Resonant inverter topologies for three concentric planar windings applied to domestic induction heating. Electronics Letters, 2010, 46, 1225.	1.0	33
50	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
51	Design and Experimental Analysis of PFC Rectifiers for Domestic Induction Heating Applications. IEEE Transactions on Power Electronics, 2018, 33, 6582-6594.	7.9	33
52	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
53	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
54	Magnetic vector potential based model for eddy-current loss calculation in round-wire planar windings. IEEE Transactions on Magnetics, 2006, 42, 2152-2158.	2.1	31

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55	Highâ€efficiency parallel quasiâ€resonant current source inverter featuring SiC metalâ€oxide semiconductor fieldâ€effect transistors for induction heating systems with coupled inductors. IET Power Electronics, 2013, 6, 183-191.	2.1	30
56	Improved Operation of SiCâ€“BJT-Based Series Resonant Inverter With Optimized Base Drive. IEEE Transactions on Power Electronics, 2014, 29, 5097-5101.	7.9	30
57	Evolving technology in bipolar perfused radiofrequency ablation: assessment of efficacy, predictability and safety in a pig liver model. European Radiology, 2006, 16, 1826-1834.	4.5	29
58	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
59	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
60	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
61	Interleaved Resonant Boost Inverter Featuring SiC Module for High-Performance Induction Heating. IEEE Transactions on Power Electronics, 2017, 32, 1018-1029.	7.9	28
62	Multiple-Output ZVS Resonant Inverter Architecture for Flexible Induction Heating Appliances. IEEE Access, 2019, 7, 157046-157056.	4.2	27
63	Temperature Influence on Equivalent Impedance and Efficiency of Inductor Systems for Domestic Induction Heating Appliances. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	26
64	Configurable snubber network for efficiency optimisation of resonant converters applied to multi-load induction heating. Electronics Letters, 2011, 47, 989.	1.0	25
65	FPGA-Based Resonant Load Identification Technique for Flexible Induction Heating Appliances. IEEE Transactions on Industrial Electronics, 2018, 65, 9421-9428.	7.9	25
66	A Flexible Cooking Zone Composed of Partially Overlapped Inductors. IEEE Transactions on Industrial Electronics, 2018, 65, 7762-7771.	7.9	25
67	Improved perfusion system for bipolar radiofrequency ablation of liver: preliminary findings from a computer modeling study. Physiological Measurement, 2006, 27, N55-N66.	2.1	24
68	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
69	Phaseâ€shift modulation in double halfâ€bridge inverter with common resonant capacitor for induction heating appliances. IET Power Electronics, 2015, 8, 1128-1136.	2.1	23
70	Industrial Electronics for Biomedicine: A New Cancer Treatment Using Electroporation. IEEE Industrial Electronics Magazine, 2019, 13, 6-18.	2.6	23
71	Improved Performance of Half-Bridge Series Resonant Inverter for Induction Heating with Discontinuous Mode Control. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	22
72	Electromagnetic induction of planar windings with cylindrical symmetry between two half-spaces. Journal of Applied Physics, 2008, 103, .	2.5	22

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73	Irreversible electroporation of the liver: is there a safe limit to the ablation volume?. Scientific Reports, 2016, 6, 23781.	3.3	22
74	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
75	RF tumor ablation with internally cooled electrodes and saline infusion: what is the optimal location of the saline infusion?. BioMedical Engineering OnLine, 2007, 6, 30.	2.7	21
76	Enhancement of induction heating performance by sandwiched planar windings. Electronics Letters, 2006, 42, 241.	1.0	20
77	Embedded Ring-Type Inductors Modeling With Application to Induction Heating Systems. IEEE Transactions on Magnetics, 2009, 45, 5333-5343.	2.1	20
78	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
79	Design and implementation of PCB inductors with litz-wire structure for conventional-size large-signal domestic induction heating applications. , 2014, , .		20
80	A synthesis method for generating switched electronic converters. IEEE Transactions on Power Electronics, 1998, 13, 1056-1068.	7.9	19
81	A new dynamic electrical model of domestic induction heating loads. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	18
82	Laparoscopic blood-saving liver resection using a new radiofrequency-assisted device: preliminary report of an inÂvivo study with pig liver. Surgical Endoscopy and Other Interventional Techniques, 2008, 22, 1384-1391.	2.4	17
83	A model of losses in twisted-multistranded wires for planar windings used in domestic induction heating appliances. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	16
84	Real-time FPGA-based Hardware-in-the-Loop development test-bench for multiple output power converters. , 2010, , .		16
85	COUPLING IMPEDANCE BETWEEN PLANAR COILS INSIDE A LAYERED MEDIA. Progress in Electromagnetics Research, 2011, 112, 381-396.	4.4	16
86	GaN-Based Versatile Waveform Generator for Biomedical Applications of Electroporation. IEEE Access, 2020, 8, 97196-97203.	4.2	16
87	A radiofrequency-assisted device for bloodless rapid transection of the liver: A comparative study in a pig liver model. European Journal of Surgical Oncology, 2008, 34, 599-605.	1.0	15
88	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
89	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
90	Multiresonant Power Converter for Improved Dual-Frequency Induction Heating. IEEE Transactions on Power Electronics, 2019, 34, 2097-2103.	7.9	15

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91	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
92	EMI improvements using the switching frequency modulation in a resonant inverter for domestic induction heating appliances. , 0, , .		14
93	Modeling Mutual Impedances of Loaded Non-Coaxial Inductors for Induction Heating Applications. IEEE Transactions on Magnetics, 2008, 44, 4115-4118.	2.1	14
94	Radiofrequency hepatic ablation with internally cooled electrodes and hybrid applicators with distant saline infusion using an in vivo porcine model. European Journal of Surgical Oncology, 2008, 34, 822-830.	1.0	14
95	Introduction to the Special Section on Induction Heating Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2504-2508.	7.9	13
96	Analysis and Modeling of the Forces Exerted on the Cookware in Induction Heating Applications. IEEE Access, 2020, 8, 131178-131187.	4.2	13
97	Resonant Inverter Topology for All-Metal Domestic Induction Heating. , 2007, , .		12
98	Multiple-output resonant inverter topology for multi-inductor loads. , 2010, , .		12
99	Identification of the material properties used in domestic induction heating appliances for system-level simulation and design purposes. , 2010, , .		12
100	Multiple-output resonant matrix converter for multiple-inductive-load systems. , 2011, , .		12
101	Normal-Mode Decomposition of Surface Power Distribution in Multiple-Coil Induction Heating Systems. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	12
102	Modeling of domestic induction heating systems with non-linear saturable loads. , 2017, , .		12
103	Real-Time Impedance Monitoring During Electroporation Processes in Vegetal Tissue Using a High-Performance Generator. Sensors, 2020, 20, 3158.	3.8	12
104	An electromagnetic-based model for calculating the efficiency in domestic induction heating appliances. , 0, , .		11
105	Methods and procedures for accurate induction heating load measurement and characterization. , 2007, , .		11
106	A model of the equivalent impedance of the coupled winding-load system for a domestic induction heating application. , 2007, , .		11
107	Series resonant multi-inverter with discontinuous-mode control for improved light-load operation. , 2010, , .		11
108	Practical issues when calculating AC losses for magnetic devices in PCB implementations. , 2012, , .		11

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109	Printed circuit board implementation of small inductors for domestic induction heating applications using a planar litz wire structure. , 2013, , .		11
110	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
111	FEA-Based Model of Elliptic Coils of Rectangular Cross Section. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	11
112	Analytical solution of the induced currents in multilayer cylindrical conductors under external electromagnetic sources. Applied Mathematical Modelling, 2016, 40, 10667-10678.	4.2	11
113	Analysis and design of tubular coils for wireless inductive power transfer systems. , 2017, , .		11
114	A Versatile Large-Signal High-Frequency Arbitrary Waveform Generator Using GaN Devices. , 2019, , .		11
115	Multiphase PFC Rectifier and Modulation Strategies for Domestic Induction Heating Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 6424-6433.	7.9	11
116	Comparing simulation alternatives of FPGA-based controllers for switching converters. , 2007, , .		10
117	Silicon carbide JFET resonant inverter for induction heating home appliances. , 2011, , .		10
118	Half-bridge resonant inverter for domestic induction heating based on silicon carbide technology. , 2012, , .		10
119	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
120	Design methodology of high performance domestic induction heating systems under worktop. IET Power Electronics, 2020, 13, 300-306.	2.1	10
121	Electric Influence of NaCl Concentration into the Tissue in Radiofrequency Ablation. Radiology, 2004, 232, 932-933.	7.3	9
122	Frequency-dependent resistance in Litz-wire planar windings for all-metal domestic induction heating appliances. , 0, , .		9
123	Long-term effectiveness of irreversible electroporation in a murine model of colorectal liver metastasis. Scientific Reports, 2017, 7, 44821.	3.3	9
124	High-Frequency GaN-Based Induction Heating Versatile Module for Flexible Cooking Surfaces. , 2019, , .		9
125	Intermodulation distortion in 1SW-ZVS multi-inverter for induction heating home appliances. , 2012, , .		8
126	Dual-mode-operation half-bridge resonant converter for improved-efficiency induction heating system. , 2012, , .		8

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127	Minimization of vias in PCB implementations of planar coils with litz-wire structure. , 2015, , .		8
128	Performance Evaluation of Graphite Thin Slabs for Induction Heating Domestic Applications. IEEE Transactions on Industry Applications, 2015, 51, 2398-2404.	4.9	8
129	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
130	Dual 1.5-MHz 3.5-kW versatile half-bridge series-resonant inverter module for inductive load characterization. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	7
131	FEA tool based model of partly coupled coils used in domestic induction cookers. , 2011, , .		7
132	Loss analysis of multistranded twisted wires by using 3D-FEA simulation. , 2014, , .		7
133	Multiple-output boost resonant inverter for high efficiency and cost-effective induction heating applications. , 2016, , .		7
134	Multiple-output ZCS resonant inverter for multi-coil induction heating appliances. , 2017, , .		7
135	High performance boost inverter featuring GaN-based devices for electro surgical units. , 2017, , .		7
136	Premature roll-off in radiofrequency ablation using bipolar saline-enhanced electrodes. European Radiology, 2005, 15, 1495-1496.	4.5	6
137	Using Mixed-Signal Simulation to Design a Digital Power Measurement System for Induction Heating Home Appliances. , 2007, , .		6
138	Experimental setup for inductive efficiency measurements of domestic induction systems based on energy balance. , 2010, , .		6
139	Half-bridge resonant inverter with SiC cascode applied to domestic induction heating. , 2013, , .		6
140	Advanced induction heating appliances using high-voltage GaN gate injection transistors. , 2015, , .		6
141	Soft-transient modulation strategy for improved efficiency and EMC performance of PFC converters applied to flexible induction heating appliances. , 2018, , .		6
142	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
143	First harmonic equivalent impedance of coupled inductive loads for induction heating applications. , 2012, , .		5
144	Series resonant inverter with active snubber circuit for improved efficiency operation applied to domestic induction heating. , 2013, , .		5

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145	Full-bridge series resonant multi-inverter featuring new 900-V SiC devices for improved induction heating appliances. , 2016, , .		5
146	Inductor System Evaluation for Simultaneous Wireless Energy Transfer and Induction Heating. , 2018, , .		5
147	Induction Heating. , 2018, , 265-287.		5
148	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
149	Constant-Current Gate Driver for GaN HEMTs Applied to Resonant Power Conversion. Energies, 2021, 14, 2377.	3.1	5
150	Pulse delay control strategy for improved power control and efficiency in multiple resonant load systems. , 2011, , .		4
151	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
152	Optimal gate drive circuit design for ZVS operation of SiC-JFET devices. Electronics Letters, 2012, 48, 1621-1622.	1.0	4
153	Active power factor corrector for high power domestic induction heating appliances. , 2017, , .		4
154	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
155	Design of a Three Inductor System with One Externally Fed for an Inductively Coupled Heating Application. , 2019, , .		4
156	Multi-Electrode Architecture Modeling and Optimization for Homogeneous Electroporation of Large Volumes of Tissue. Energies, 2021, 14, 1892.	3.1	4
157	Modeling and Calculation of the Efficiency for Low-cost Round-wire Planar Windings in Domestic Induction Heating Applications. , 2007, , .		3
158	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
159	Passive network equivalent of an induction system for domestic cookers applications based on FEA tool simulation. , 2011, , .		3
160	High-efficiency power converters for domestic induction heating applications. , 2012, , .		3
161	High-efficiency high-power density series resonant inverter based on a multi-Mosfet cell implementation. , 2013, , .		3
162	Full-bridge quasi-resonant class-DE inverter for optimized high frequency operation with GaN HEMT devices. , 2014, , .		3

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163	Optimized 4-coil inductor system arrangement for induction heating appliances. , 2015, , .		3
164	A review of pulse generation topologies for clinical electroporation. , 2015, , .		3
165	Design and Implementation of a Test-Bench for Efficiency Measurement of Domestic Induction Heating Appliances. Energies, 2016, 9, 636.	3.1	3
166	Pulse density modulated control for the series resonant multi-inverter for induction heating applications. , 2016, , .		3
167	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
168	High power density PCB coil array applied to domestic induction heating appliances. , 2018, , .		3
169	An analysis of electromagnetic forces on cooking vessels used in domestic induction heating appliances oriented to identify the properties of materials. , 2019, , .		3
170	An Inductive Power Transfer System Case Study: Large Gap in Low Power Wireless Power Supply. , 2020, , .		3
171	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
172	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
173	High-Performance Class-E Quasi-Resonant Inverter for Domestic Induction Heating Applications. , 2022, , .		3
174	A VHDL electrothermal modeling of power electronic circuits. , 0, , .		2
175	Small ablation zones created previous to saline infusion result in enlargement of the coagulated area during perfusion RF ablation: anex vivoexperimental study. Physiological Measurement, 2007, 28, N29-N37.	2.1	2
176	System-on-programmable-chip-based versatile modulation architecture applied to domestic induction heating. , 2009, , .		2
177	High Frequency Pulse Density Modulation for cost-effective and efficient multiple induction-heater architectures. , 2011, , .		2
178	PCB multi-track coils for domestic induction heating applications. , 2012, , .		2
179	A comparative evaluation of high-efficiency resonant converters for domestic induction heating. , 2013, , .		2
180	Elliptic flat-type inductor for low-cost flexible active surface implementations of domestic induction heating appliances. , 2013, , .		2

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181	Upgrading of double seriesâ€resonant halfâ€bridge inverter to improve efficiency. Electronics Letters, 2013, 49, 1091-1092.	1.0	2
182	Experimental evaluation of dynamic load changes in flexible induction heating appliances. , 2014, , .		2
183	SiC BJT-based full-ZCS quasi-resonant converter with improved efficiency for induction heating applications. , 2014, , .		2
184	Design of efficient loads for domestic induction heating applications by means of non-magnetic thin metallic layers. , 2016, , .		2
185	An Inter-Disciplinary Approach to Teaching Biomedical Electronics with an Electroporation-Applied Example. , 2018, , .		2
186	WBG Semiconductor and Capacitor Technology Evaluation for Pulsed Electroporation Applications. , 2019, , .		2
187	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
188	Power Factor Correction using Asymmetrical Modulation for Flexible Induction Heating Appliances. , 2021, , .		2
189	Matrix ZVS Resonant Inverter for Domestic Induction Heating Applications Featuring a Front-End PFC Stage. , 2021, , .		2
190	Induction Heating of Two Magnetically Independent Loads With a Single Transmitter. IEEE Transactions on Power Electronics, 2022, 37, 3391-3402.	7.9	2
191	Multi-Output Resonant Power Converters for Domestic Induction Heating. , 2020, , .		2
192	Design and Optimization of a SiC-Based Versatile Bidirectional High-Voltage Waveform Generator. , 2022, , .		2
193	Derivation of some classical modeling methods for power electronic converters from a unified model. , 0, , .		1
194	High frequency inverter design for large-signal characterization of domestic induction heating load. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
195	Controlled-resistance loads for induction heating applications using thin non-magnetic metallic layers. Electronics Letters, 2007, 43, 461.	1.0	1
196	Modeling of adaptable-diameter burners formed by concentric planar windings for domestic induction heating applications. , 2010, , .		1
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