

Paul D Mitcheson

List of Publications by Year in descending order

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51
papers

3,436
citations

567281

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h-index

794594

19
g-index

51
all docs

51
docs citations

51
times ranked

2991
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Harvesting From Human and Machine Motion for Wireless Electronic Devices. Proceedings of the IEEE, 2008, 96, 1457-1486.	21.3	1,522
2	Maximizing DC-to-Load Efficiency for Inductive Power Transfer. IEEE Transactions on Power Electronics, 2013, 28, 2437-2447.	7.9	360
3	Power-Extraction Circuits for Piezoelectric Energy Harvesters in Miniature and Low-Power Applications. IEEE Transactions on Power Electronics, 2012, 27, 4514-4529.	7.9	198
4	Load-Independent Class E/EF Inverters and Rectifiers for MHz-Switching Applications. IEEE Transactions on Power Electronics, 2018, 33, 8270-8287.	7.9	167
5	Wireless Power Transmission: R&D Activities Within Europe. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1031-1045.	4.6	138
6	Dynamic Capabilities of Multi-MHz Inductive Power Transfer Systems Demonstrated With Batteryless Drones. IEEE Transactions on Power Electronics, 2019, 34, 5093-5104.	7.9	108
7	Energy harvesting for human wearable and implantable bio-sensors. , 2010, 2010, 3432-6.		89
8	Design and Fabrication of Heat Storage Thermoelectric Harvesting Devices. IEEE Transactions on Industrial Electronics, 2014, 61, 302-309.	7.9	87
9	Modeling and Analysis of Class EF and Class E/F Inverters With Series-Tuned Resonant Networks. IEEE Transactions on Power Electronics, 2016, 31, 3415-3430.	7.9	87
10	Light-weight wireless power transfer for mid-air charging of drones. , 2017, , .		77
11	Design and Development of a Class EF ₂ Inverter and Rectifier for Multimegahertz Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2016, 31, 8138-8150.	7.9	65
12	Tuning the Resonant Frequency and Damping of an Electromagnetic Energy Harvester Using Power Electronics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 792-796.	3.0	64
13	Multi-MHz IPT Systems for Variable Coupling. IEEE Transactions on Power Electronics, 2018, 33, 7744-7758.	7.9	58
14	Load-independent Class EF inverters for inductive wireless power transfer. , 2016, , .		40
15	Switched-Mode Load Impedance Synthesis to Parametrically Tune Electromagnetic Vibration Energy Harvesters. IEEE/ASME Transactions on Mechatronics, 2015, 20, 603-610.	5.8	38
16	Class-E Half-Wave Zero dv/dt Rectifiers for Inductive Power Transfer. IEEE Transactions on Power Electronics, 2017, 32, 8322-8337.	7.9	34
17	Maximum Effectiveness of Electrostatic Energy Harvesters When Coupled to Interface Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 3098-3111.	5.4	28
18	Energy-autonomous sensing systems using drones. , 2017, , .		26

#	ARTICLE	IF	CITATIONS
19	Comparison of current driven Class-D and Class-E half-wave rectifiers for 6.78 MHz high power IPT applications. , 2015, , .		23
20	Maximum Performance of Piezoelectric Energy Harvesters When Coupled to Interface Circuits. IEEE Sensors Journal, 2016, 16, 4803-4815.	4.7	15
21	Integration of a Class-E low DV/DT rectifier in a wireless power transfer system. , 2014, , .		14
22	Micro-Engineered Devices for Motion Energy Harvesting. , 2007, , .		13
23	Optimal Operation of Multitone Waveforms in Low RF-Power Receivers. , 2018, , .		13
24	A Multi-MHz IPT-link Developed for Load Characterisation at Highly Variable Coupling Factor. , 2018, , .		13
25	Induced Voltage Estimation From Class EF Switching Harmonics in HF-IPT Systems. IEEE Transactions on Power Electronics, 2022, 37, 4903-4916.	7.9	11
26	Design of 3 MHz DC/AC inverter with resonant gate drive for a 3.3 kW EV WPT system. , 2016, , .		10
27	A Clamping-Circuit-Based Voltage Measurement System for High-Frequency Flying Capacitor Multilevel Inverters. IEEE Transactions on Power Electronics, 2022, 37, 12301-12315.	7.9	10
28	Hybrid Class-E synchronous rectifier for wireless powering of quadcopters. , 2017, , .		9
29	A 100W 6.78MHz Inductive Power Transfer System for Drones. , 2020, , .		9
30	Load Characterization in High-Frequency IPT Systems Using Class EF Switching Waveforms. IEEE Transactions on Power Electronics, 2021, 36, 11036-11044.	7.9	9
31	Link efficiency-led design of mid-range inductive power transfer systems. , 2015, , .		8
32	Class EFπ inverters for wireless power transfer applications. , 2015, , .		8
33	Characterisation of High Frequency Inductive Power Transfer Receivers Using Pattern Recognition on the Transmit Side Waveforms. , 2020, , .		8
34	Development of a Fast-Charging Platform for Buried Sensors Using High Frequency IPT for Agricultural Applications. , 2022, , .		8
35	Generalized Multistage Modeling and Tuning Algorithm for Class EF and Class Φ Inverters to Eliminate Iterative Retuning. IEEE Transactions on Power Electronics, 2022, 37, 12877-12900.	7.9	8
36	Electrochemical impedance spectroscopy state of charge measurement for batteries using power converter modulation. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
37	Design of a 13.56 MHz IPT system optimised for dynamic wireless charging environments. , 2016, , .		6
38	Hybrid Class-E low dv/dt rectifier for high frequency inductive power transfer. , 2016, , .		6
39	Design objectives and power limitations of human implantable wireless power transfer systems. , 2016, , .		5
40	13.56MHz 50W Load-Independent Synchronous Class E Rectifier using GaN devices for Space-Constrained Applications. , 2018, , .		5
41	A Multi-MHz Wireless Power Transfer System With Mains Power Factor Correction Circuitry on the Receiver. , 2019, , .		5
42	Design and Development of a Test Rig for 13.56 MHz IPT Systems with Synchronous Rectification and Bidirectional Capability. , 2021, , .		5
43	Multi-Megahertz IPT Systems for Biomedical Devices Applications. , 2019, , .		4
44	A Reflected Impedance Estimation Technique for Inductive Power Transfer. , 2019, , .		4
45	Dynamic analysis of photovoltaic system with MPP locus emulation. , 2010, , .		3
46	Scheme for improved integration and lifetime for piezoelectric energy harvesters. , 2013, , .		3
47	A current driven Class D rectifier with a resistance compression network for 6.78MHz IPT systems. , 2016, , .		3
48	Probability-Based Optimisation for a Multi-MHz IPT System with Variable Coupling. , 2018, , .		2
49	Design and Modelling of Class EF Inverters for Wireless Power Transfer Applications. , 2019, , .		2
50	A CMOS ISFET array for wearable thermoelectrically powered perspiration analysis. , 2016, , .		1
51	Adaptable, High Performance Energy Harvesters. , 2013, , .		0