Michael B Steer

List of Publications by Year in descending order

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65	1,253	19	32
papers	citations	h-index	g-index
68	68	68	855
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Characterization of Intermodulation Distortion in Reconfigurable Liquid Metal Antennas. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 279-282.	2.4	32
2	Passive Intermodulation Due to Conductor Surface Roughness. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 688-699.	2.9	22
3	Power and temperature dependence of passive intermodulation distortion. , 2018, , .		5
4	Abstracted Random Mediums for Electromagnetic Hotspot Observation in Finite-Difference Time-Domain Simulation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1873-1879.	2.9	3
5	Significance of randomness in establishing hotspots in crystals. , 2017, , .		O
6	Passive Intermodulation of Analog and Digital Signals on Transmission Lines With Distributed Nonlinearities: Modelling and Characterization. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1383-1395.	2.9	49
7	The Effect of Chaotic Vibrations on Antenna Characteristics. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1242-1244.	2.4	8
8	Passive Intermodulation Distortion in Antennas. IEEE Transactions on Antennas and Propagation, 2015, 63, 474-482.	3.1	50
9	An acoustic filter based on layered structure. Applied Physics Letters, 2015, 106, 111903.	1.5	36
10	Characterisation of nonlinear distortion and intermodulation in passive devices and antennas. , 2014, , .		19
11	Electromagnetic Properties of Disordered Three-Dimensional Mixtures. IEEE Access, 2013, 1, 778-788.	2.6	5
12	Automated Creation of Complex Three-Dimensional Composite Mixtures for Use in Electromagnetic Simulation. IEEE Access, 2013, 1, 248-251.	2.6	5
13	Sensitive Vibration Detection Using Ground-Penetrating Radar. IEEE Microwave and Wireless Components Letters, 2013, 23, 680-682.	2.0	11
14	Investigation of close-in passive intermodulation distortion on antennas. , 2013, , .		1
15	A Transient Electrothermal Analysis of Three-Dimensional Integrated Circuits. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 660-667.	1.4	8
16	Robust Analog Canceller for High-Dynamic-Range Radio Frequency Measurement. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1709-1719.	2.9	25
17	Analog Negative-Bias-Temperature-Instability Monitoring Circuit. IEEE Transactions on Device and Materials Reliability, 2012, 12, 177-179.	1.5	6
18	Characterization of the dynamic range of a single aperture communications system. , 2012, , .		2

#	Article	IF	Citations
19	Standoff Acoustic Modulation of Radio Frequency Signals in a Log-Periodic Dipole Array Antenna. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 885-888.	2.4	7
20	A Highly Linear and Efficient CMOS RF Power Amplifier With a 2-D Circuit Synthesis Technique. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2851-2862.	2.9	3
21	Parallel Transient Simulation of Multiphysics Circuits Using Delay-Based Partitioning. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 1522-1535.	1.9	4
22	Why it is so hard to find small radio frequency signals in the presence of large signals. , 2012, , .		4
23	Comparison of modeling techniques in circuit variability analysis. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 288-302.	1.2	9
24	Passivity Enforcement for Admittance Models of Distributed Networks Using an Inverse Eigenvalue Method. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 8-20.	2.9	9
25	High-Performance Solenoidal RF Transformers on High-Resistivity Silicon Substrates for 3D Integrated Circuits. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2066-2072.	2.9	23
26	Surrogate-Model-Based Analysis of Analog Circuitsâ€"Part II: Reliability Analysis. IEEE Transactions on Device and Materials Reliability, 2011, 11, 466-473.	1.5	21
27	Surrogate-Model-Based Analysis of Analog Circuits—Part I: Variability Analysis. IEEE Transactions on Device and Materials Reliability, 2011, 11, 458-465.	1.5	31
28	Accurate and Scalable IO Buffer Macromodel Based on Surrogate Modeling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1240-1249.	1.4	28
29	Distributed Passive Intermodulation Distortion on Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1190-1205.	2.9	100
30	Unified Understanding of RF Remote Probing. IEEE Sensors Journal, 2011, 11, 3055-3063.	2.4	33
31	Reduced-order modeling for co-simulation of circuit and electromagnetic interactions. , $2011,$, .		0
32	Inverse Singular Value Method for Enforcing Passivity in Reduced-Order Models of Distributed Structures for Transient and Steady-State Simulation. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 837-847.	2.9	26
33	Automated Broadband High-Dynamic-Range Nonlinear Distortion Measurement System. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1273-1282.	2.9	65
34	Thermal analysis and verification of a mounted monolithic integrated circuit. , $2010, \ldots$		4
35	A 6.2–7.5 GHz tunable bandpass filter with integrated Barium Strontium Titanate (BST) interdigitated varactors utilizing silver/copper metallization. , 2009, , .		4
36	Narrowband Barium Strontium Titanate (BST) tunable bandpass filters at X-band. , 2009, , .		7

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37	Low distortion amplification of multisine signals using a time-frequency technique. , 2009, , .		2
38	$\mbox{MIO17}$ - Integrated microwave frequency tunable bandpass filter using barium strontium titanate varactors. , 2008, , .		2
39	Wideband high dynamic range distortion measurement., 2008,,.		4
40	Electro-Thermal Theory of Intermodulation Distortion in Lossy Microwave Components. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2717-2725.	2.9	110
41	Response of RF Networks to Transient Waveforms: Interference in Frequency-Hopped Communications. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2808-2814.	2.9	64
42	Modeling correlated and uncorrelated distortion in communication systems. , 2008, , .		0
43	Design for 3D Integration and Applications. , 2007, , .		7
44	High-Q Solenoidal Inductive Elements. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	6
45	Reflection Coefficient Shaping of a 5-GHz Voltage-Tuned Oscillator for Improved Tuning. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2488-2494.	2.9	7
46	Origin of the Half-Wavelength Errors in Microwave Measurements Using Through–Line Calibrations. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1610-1615.	2.4	5
47	Modeling the Nonlinear Response of Multitones With Uncorrelated Phase. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2147-2156.	2.9	7
48	Electro-Thermal Passive Intermodulation Distortion in Microwave Attenuators., 2006,,.		23
49	The applicability of Noise Power Ratio (NPR) in real communication signals. , 2006, , .		4
50	Discrete Barium Strontium Titanate (BST) Thin-Film Interdigital Varactors on Alumina: Design, Fabrication, Characterization, and Applications. , 2006, , .		15
51	Transceiver cascade system analysis and design via a contribution method. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 338-345.	0.8	3
52	Capturing asymmetrical spectral regrowth in RF systems using a multislice behavioral model and enhanced envelop transient analysis. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 400-407.	0.8	4
53	Voltage Controlled GaN-on-Si HFET Power Oscillator Using Thin-Film Ferroelectric Varactor Tuning. , 2006, , .		9
54	Behavioral Modeling of Quadrature Modulators for Characterization of Nonlinear Distortion. , 2006, , .		3

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55	The Relationship of Signal Processing, Communication Technologies and RF Circuit Design and the Impact on the Future of RF and Microwave Education. , 2006, , .		O
56	A High K Nanocomposite for High Density Chip-to-Package Interconnections. Materials Research Society Symposia Proceedings, 2004, 833, 185.	0.1	6
57	Mathematical foundations of frequency-domain modeling of nonlinear circuits and systems using the arithmetic operator method. International Journal of RF and Microwave Computer-Aided Engineering, 2003, 13, 473-495.	0.8	12
58	Printed antenna design for broadband waveguide-based spatial power combiners. Microwave and Optical Technology Letters, 2003, 36, 411-415.	0.9	0
59	Nonlinear analysis methods for the simulation of digital wireless communication systems. The International Executive, 1996, 6, 197-216.	0.2	32
60	Diode characterization in a coaxial mount. The International Executive, 1993, 3, 114-117.	0.2	0
61	A coaxial test fixture for characterizing lowâ€impedance microwave twoâ€terminal devices. Microwave and Optical Technology Letters, 1993, 6, 197-200.	0.9	2
62	Nonlinear circuit analysis using the method of harmonic balanceâ€"A review of the art. Part I. Introductory concepts. The International Executive, 1991, 1, 22-37.	0.2	165
63	Nonlinear circuit analysis using the method of harmonic balance—a review of the art. II. Advanced concepts. The International Executive, 1991, 1, 159-180.	0.2	59
64	Computerâ€aided analysis of nonlinear microwave circuits using frequencyâ€domain nonlinear analysis techniques: The state of the art. The International Executive, 1991, 1, 181-200.	0.2	33
65	The relationship between bivariate volterra analysis and power series analysis with application to the behavioral modeling of microwave circuits. The International Executive, 1991, 1, 253-262.	0.2	4