

Jordi Mateu

List of Publications by Year in descending order

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94
papers

1,030
citations

471509

17
h-index

501196

28
g-index

94
all docs

94
docs citations

94
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Nonlinear Model and Fast Analysis for In-Band IMD3 Prediction of Surface Acoustic Wave Resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2190-2205.	3.0	2
2	Barcelona Coastal Monitoring with the "Patã-a Vela", a Traditional Sailboat Turned into an Oceanographic Platform. Journal of Marine Science and Engineering, 2022, 10, 591.	2.6	3
3	Tone injection-based cancellation technique for nonlinear distortion reduction of modulated signals in BAW resonators. Microwave and Optical Technology Letters, 2021, 63, 781-786.	1.4	1
4	Acoustic Wave Transversal Filter for 5G N77 Band. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4476-4488.	4.6	11
5	The Input-Output Equivalent Sources Method for Fast Simulations of Distributed Nonlinearities in Bulk Acoustic Wave Resonators and Filters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1907-1918.	3.0	3
6	Out of Band Improved Performance Into a Measured 5G N77 Band Transversal Filter. , 2021, , .		0
7	Method to Measure Reflection Coefficient Under CW High-Power Signals in SAW Resonators. , 2021, , .		0
8	Towards a N77 Electroacoustic Filter Using Thin Films of Crystalline Y-cut Lithium Niobate. , 2021, , .		2
9	Third-Harmonic and Intermodulation Distortion in Bulk Acoustic-Wave Resonators. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1304-1311.	4.6	4
10	An Equivalent Model for Lateral Modes on the H2 Response of Bulk Acoustic Wave Resonators. , 2020, , .		2
11	Fast simulation method of Distributed Nonlinearities in Surface Acoustic Wave Resonators. , 2020, , .		2
12	Nonlinear Performance on Acoustic Transversal Filters. , 2020, , .		1
13	Analysis of Border Ring Modes on SMR-BAW Resonators. , 2019, , .		4
14	Role of SiO ₂ Layers in Third-Order Nonlinear Effects of Temperature Compensated BAW Resonators. , 2019, , .		1
15	A Multistate Single-Connection Calibration for Microwave Microfluidics. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1099-1107.	4.6	24
16	Nonlinear Effects of SiO ₂ Layers in Bulk Acoustic Wave Resonators. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1773-1779.	4.6	12
17	New Technique to Cancel IMD3 in Electroacoustic Filters. , 2018, , .		1
18	Fast Procedure for the Nonlinear Analysis of BAW Resonators. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Feed-Forward Technique to Measure the Reflection Coefficient Under CW High-Power Signals. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4627-4633.	4.6	1
20	Sub-Nanosecond Tuning of Microwave Resonators Fabricated on Ruddlesden-Popper Dielectric Thin Films. Advanced Materials Technologies, 2018, 3, 1800090.	5.8	2
21	Three-Port Frequency-Selective Absorptive Limiter. IEEE Microwave and Wireless Components Letters, 2017, 27, 479-481.	3.2	10
22	Comprehensive Circuit Model of Autolimiting Superconductor Devices. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	0
23	How to extract distributed circuit parameters from the scattering parameters of a transmission line. , 2017, , .		3
24	Three-Element Filtering Antenna Array Designed by the Equivalent Circuit Approach. IEEE Transactions on Antennas and Propagation, 2016, 64, 3831-3839.	5.1	20
25	Novel formulation of coefficients of low-pass prototype filter for the design of four-element planar filtering antenna array. , 2015, , .		0
26	Mechanical Tuning of Substrate Integrated Waveguide Filters. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3939-3946.	4.6	18
27	Equivalent circuits of planar filtering antennas fed by apertures. , 2014, , .		3
28	A lateral modes model for BAW resonators. , 2014, , .		6
29	Absorptive Limiter for Frequency-Selective Circuits. IEEE Microwave and Wireless Components Letters, 2014, 24, 415-417.	3.2	9
30	Performance of BAW resonators at cryogenic temperatures. , 2013, , .		0
31	Electro-thermo-mechanical model for bulk acoustic wave resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2389-2403.	3.0	35
32	A consistent methodology to characterize BAW resonators. , 2012, , .		1
33	Mechanical Tuning of Substrate Integrated Waveguide Resonators. IEEE Microwave and Wireless Components Letters, 2012, 22, 447-449.	3.2	25
34	A Large-Signal Model of Ferroelectric Thin-Film Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3059-3067.	4.6	2
35	Superconducting Multiplexer Filter Bank for a Frequency-Selective Power Limiter. IEEE Transactions on Applied Superconductivity, 2011, 21, 542-546.	1.7	4
36	Modeling of Self-Heating Mechanism in the Design of Superconducting Limiters. IEEE Transactions on Applied Superconductivity, 2011, 21, 547-550.	1.7	1

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37	Substrate integrated waveguide predistorted filter at 20 GHz. IET Microwaves, Antennas and Propagation, 2011, 5, 928.	1.4	8
38	Passive Intermodulation Due to Self-Heating in Printed Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 311-322.	4.6	45
39	A Compact Variable-Temperature Broadband Series-Resistor Calibration. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 188-195.	4.6	35
40	First-Order Elastic Nonlinearities of Bulk Acoustic Wave Resonators. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1206-1213.	4.6	13
41	Quantitative Permittivity Measurements of Nanoliter Liquid Volumes in Microfluidic Channels to 40 GHz. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3279-3288.	4.7	140
42	Synthesis of 4th order lossy filters with uniform Q distribution. , 2010, , .		6
43	Quantitative permittivity measurements of nanoliter fluid volumes from 50 MHz to 40 GHz with microfluidic channels. , 2010, , .		2
44	UWB receiver based on microwave filter-bank. , 2010, , .		1
45	Comparison of lossy filters and predistorted filters using novel software. , 2010, , .		4
46	Broadband dielectric spectroscopy of Ruddlesden-Popper $\text{Sr}_{n+1}\text{Ti}_n\text{O}_{3n+1}$ ($n=1,2,3$) thin films. Applied Physics Letters, 2009, 94, 042908.	3.3	27
47	Third-Order Intermodulation Distortion and Harmonic Generation in Mismatched Weakly Nonlinear Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 10-18.	4.6	17
48	Measurement of the Microwave Nonlinear Response of Combined Ferroelectric-Superconductor Transmission Lines. IEEE Transactions on Applied Superconductivity, 2009, 19, 940-943.	1.7	2
49	Design of Ultra-Wideband Substrate Integrated Waveguide (SIW) Filters in Zigzag Topology. IEEE Microwave and Wireless Components Letters, 2009, 19, 281-283.	3.2	49
50	Nonlinear Distributed Model for Bulk Acoustic Wave Resonators. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3019-3029.	4.6	29
51	Third order intermodulation distortion in Film Bulk Acoustic Resonators at resonance and antiresonance. , 2008, , .		9
52	Nonlinear distributed model for IMD prediction in BAW resonators. , 2008, , .		12
53	Nonlinear effects in thin-film ferroelectric transmission lines at microwave frequencies. , 2008, , .		0
54	Detuning and Saturation of Superconducting Devices: Formulation and Measurements. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	1

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55	Frequency dependence of the nonlinear response in YBa ₂ Cu ₃ O _{7-x} transmission lines. Applied Physics Letters, 2007, 90, 012512.	3.3	7
56	Broadband Characterization of Multilayer Dielectric Thin-Films. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	12
57	Broadband Permittivity of Liquids Extracted from Transmission Line Measurements of Microfluidic Channels. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	23
58	Nonlinear Response of Combined Superconductor/Ferroelectric Devices: First Experimental Step. IEEE Transactions on Applied Superconductivity, 2007, 17, 942-945.	1.7	3
59	Frequency Tuning and Spurious Signal Generation at Microwave Frequencies in Ferroelectric SrTiO_3 Thin-Film Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 391-396.	4.6	20
60	Intermodulation Distortion in Coupled-Resonator Filters With Nonuniformly Distributed Nonlinear Properties—Use in HTS IMD Compensation. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 616-624.	4.6	15
61	Modeling Superconducting Transmission Line Bends and Their Impact on Nonlinear Effects. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 822-828.	4.6	15
62	Wideband Nonlinear Response of High-Temperature Superconducting Thin Films From Transmission-Line Measurements. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1425-1430.	4.6	2
63	Unified Description of Nonlinear Effects in High Temperature Superconductor Microwave Devices. Journal of Superconductivity and Novel Magnetism, 2007, 19, 531-540.	1.8	16
64	Broadband Permittivity Measurements of Liquid and Biological Samples using Microfluidic Channels. , 2006, , .		30
65	Analysis and Simulation of distributed nonlinearities in ferroelectrics and superconductors for microwave applications. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1154-1160.	4.6	31
66	Measurements and Analysis of Microwave Nonlinearities in Ferroelectric Thin Film Transmission Lines. , 2006, , .		7
67	Nonlinear Distortion in a 8-Pole Quasi-Elliptic Bandpass HTS Filter for CDMA System. IEEE Transactions on Applied Superconductivity, 2005, 15, 992-995.	1.7	12
68	Nonlinear Model of Coupled Superconducting Lines. IEEE Transactions on Applied Superconductivity, 2005, 15, 976-979.	1.7	7
69	Performance Projection of Electro-Optical Modulators for Radio-Over-Fiber in 2 GHz Cryogenic Front-End Receivers. IEEE Transactions on Applied Superconductivity, 2005, 15, 924-927.	1.7	0
70	Compact duplexer with miniaturized dual loop resonator. , 2005, , .		9
71	Robust passive shaping network for impulse radio and UWB signal generator. , 2005, , .		3
72	Analysis and Simulation of the Effects of Distributed Nonlinearities in Microwave Superconducting Devices. IEEE Transactions on Applied Superconductivity, 2005, 15, 26-39.	1.7	51

#	ARTICLE	IF	CITATIONS
73	General equations for the induced phase shift in resonant electrooptic modulators. IEEE Photonics Technology Letters, 2005, 17, 330-332.	2.5	3
74	Miniaturization of Superconducting Filters Using Hilbert Fractal Curves. IEEE Transactions on Applied Superconductivity, 2005, 15, 3841-3846.	1.7	31
75	Estimating Respiratory Pattern Variability by Symbolic Dynamics. Methods of Information in Medicine, 2004, 43, 22-25.	1.2	2
76	Nonlinear performance characterization in an eight-pole quasi-elliptic bandpass filter. Superconductor Science and Technology, 2004, 17, S359-S362.	3.5	11
77	Comparison between nonlinear measurements in patterned and unpatterned thin films. Superconductor Science and Technology, 2004, 17, 876-880.	3.5	2
78	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 873-880.	0.5	9
79	Prediction of nonlinear distortion in HTS filters for CDMA communication systems. IEEE Transactions on Applied Superconductivity, 2003, 13, 328-331.	1.7	11
80	Analysis of dielectric-loaded cavities for characterization of the nonlinear properties of high temperature superconductors. IEEE Transactions on Applied Superconductivity, 2003, 13, 332-335.	1.7	1
81	Epitaxial Growth and High-Frequency Properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Electrodes on LiNbO_3 . Materials Science Forum, 2003, 426-432, 3543-3550.	0.3	0
82	A general approach for the calculation of intermodulation distortion in cavities with superconducting endplates. Applied Physics Letters, 2003, 82, 97-99.	3.3	10
83	Reduced microwave losses of $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films on electro-optic LiNbO_3 crystals. Journal of Applied Physics, 2002, 92, 6346-6348.	2.5	2
84	HTS nonlinearities in microwave disk resonators. Physica C: Superconductivity and Its Applications, 2002, 372-376, 566-570.	1.2	4
85	Nonlinear RF spurious in a cylindrical cavity with superconducting endplates. Physica C: Superconductivity and Its Applications, 2002, 372-376, 679-682.	1.2	1
86	Correction to "Nonlinear analysis of disk resonators. application to material characterization and filter design". IEEE Transactions on Applied Superconductivity, 2001, 11, 4148-4148.	1.7	2
87	General electromagnetic simulation tool to predict the microwave nonlinear response of planar, arbitrarily-shaped HTS structures. IEEE Transactions on Applied Superconductivity, 2001, 11, 399-402.	1.7	8
88	Harmonic Balance Algorithms for the Nonlinear Simulation of HTS Devices. Journal of Superconductivity and Novel Magnetism, 2001, 14, 57-64.	0.5	5
89	Nonlinear simulation and characterization of devices with HTS transmission lines using harmonic balance algorithms. IEEE Transactions on Applied Superconductivity, 2001, 11, 1396-1399.	1.7	29
90	Nonlinear analysis of disk resonators. Application to material characterization and filter design. IEEE Transactions on Applied Superconductivity, 2001, 11, 135-138.	1.7	13

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91	Harmonic balance algorithm to model nonlinear effects in HTS filters subject to CDMA signals. , 0, , .		2
92	Hilbert fractal curves for HTS miniaturized filters. , 0, , .		3
93	Ultra-wideband Testbed For Reduced Data-rates and Location. , 0, , .		1
94	Superconducting Filters and Passive Components. , 0, , .		1