

Marco Farina

List of Publications by Year in descending order

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84
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623734

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85
all docs

85
docs citations

85
times ranked

532
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration Protocol for Broadband Near-Field Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2769-2776.	4.6	60
2	Disentangling time in a near-field approach to scanning probe microscopy. Nanoscale, 2011, 3, 3589.	5.6	46
3	A short-open deembedding technique for method-of-moments-based electromagnetic analyses. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 624-628.	4.6	44
4	Tomographic effects of near-field microwave microscopy in the investigation of muscle cells interacting with multi-walled carbon nanotubes. Applied Physics Letters, 2012, 101, .	3.3	34
5	Design and Fabrication of a Dielectricless Substrate-Integrated Waveguide. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 256-261.	2.5	31
6	A 3-D integral equation-based approach to the analysis of real-life MMICs application to microelectromechanical systems. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2235-2240.	4.6	29
7	High Resolution Scanning Microwave Microscopy for Applications in Liquid Environment. IEEE Microwave and Wireless Components Letters, 2012, 22, 595-597.	3.2	27
8	Investigation of Fullerene Exposure of Breast Cancer Cells by Time-Gated Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4823-4831.	4.6	21
9	Inverted scanning microwave microscope for <i>in vitro</i> imaging and characterization of biological cells. Applied Physics Letters, 2019, 114, .	3.3	20
10	A Multichannel Model for the Self-Consistent Analysis of Coherent Transport in Graphene Nanoribbons. ACS Nano, 2011, 5, 6109-6118.	14.6	19
11	Quantitative Scanning Microwave Microscopy of the Evolution of a Live Biological Cell in a Physiological Buffer. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5438-5445.	4.6	18
12	Modified Adaptive Prototype Inclusive of the External Couplings for the Design of Coaxial Filters. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1905-1911.	4.6	17
13	Design of Low-Cost non-radiative SMA-SIW Launchers. , 2006, , .		14
14	Electronic properties of carbon nanotubes investigated by means of standard electromagnetic simulators. Physical Review B, 2007, 75, .	3.2	14
15	Stationary Mode Distribution and Sidewall Roughness Effects in Overmoded Optical Waveguides. Journal of Lightwave Technology, 2010, 28, 1510-1520.	4.6	14
16	Attoampere Nanoelectrochemistry. Small, 2021, 17, e2101253.	10.0	14
17	ELF-EMFs INDUCED EFFECTS ON CELL LINES: CONTROLLING ELF GENERATION IN LABORATORY. Progress in Electromagnetics Research B, 2010, 24, 131-153.	1.0	13
18	Fast ultrahigh-density writing of low-conductivity patterns on semiconducting polymers. Nature Communications, 2013, 4, 2668.	12.8	13

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19	OPTICAL FIBER EXTRINSIC MICRO-CAVITY SCANNING MICROSCOPY. Progress in Electromagnetics Research, 2013, 133, 347-366.	4.4	13
20	Efficient full-wave analysis of stratified planar structures and unbiased TW-FET's. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1322-1329.	4.6	12
21	A Technique for the Measurement of the Generalized Scattering Matrix of Overmoded Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2705-2714.	4.6	12
22	Scanning Microwave Microscopy for Biological Applications: Introducing the State of the Art and Inverted SMM. IEEE Microwave Magazine, 2020, 21, 52-59.	0.8	12
23	A Calibration Approach for the Segmentation and Analysis of Microwave Circuits. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2124-2134.	4.6	11
24	Algorithm for reduction of noise in ultramicroscopy and application to near-field microwave microscopy. Electronics Letters, 2010, 46, 50.	1.0	10
25	Infrared imaging in liquid through an extrinsic optical microcavity. Optics Letters, 2013, 38, 5094.	3.3	10
26	Synthetic holography based on scanning microcavity. AIP Advances, 2015, 5, 117125.	1.3	10
27	General constraints on the propagation of complex waves in closed lossless isotropic waveguides. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 512-516.	4.6	9
28	Spectral domain approach to 2D-modelling of open planar structures with thick lossy conductors. IET Microwaves Antennas and Propagation, 2000, 147, 321.	1.2	9
29	Near-Field Microwave Investigation of Electrical Properties of Graphene-ITO Electrodes for LED Applications. Journal of Display Technology, 2013, 9, 504-510.	1.2	9
30	Systematic Evaluation of Spikes Due to Interference Between Cascaded Filters. IEEE Transactions on Microwave Theory and Techniques, 2018, , 1-6.	4.6	9
31	Real-Time Removal of Topographic Artifacts in Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2662-2672.	4.6	8
32	Practical design of a high-power tuning-less W-band triplexer for ground radar surveillance systems. IET Microwaves, Antennas and Propagation, 2007, 1, 822.	1.4	7
33	Imaging of exosomes by broadband scanning microwave microscopy. , 2016, , .		7
34	Scanning microwave microscopy of buried CMOS interconnect lines with nanometer resolution. International Journal of Microwave and Wireless Technologies, 2018, 10, 556-561.	1.9	6
35	A Method for Fast and Reliable Analysis and Optimization of Side-Coupled Cavity Filters and Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3847-3856.	4.6	6
36	Broadband Scanning Microwave Microscopy of a Biological Cell with Unprecedented Image Quality and Signal-to-Noise Ratio. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
37	Quantitative Characterization of Platinum Diselenide Electrical Conductivity With an Inverted Scanning Microwave Microscope. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3348-3359.	4.6	6
38	Imaging of biological structures by Near-Field Microwave Microscopy. , 2015, , .		5
39	Nano Probing for Microwave Engineers: Calculating Probe-Sample Capacitance and Charge Distribution of a Near-Field Scanning Microwave Microscope on a Nanoscale. IEEE Microwave Magazine, 2017, 18, 71-75.	0.8	5
40	Developments of microwave microscopy for application to biological samples. , 2017, , .		5
41	Measuring zinc in biological nanovesicles by multiple analytical approaches. Journal of Trace Elements in Medicine and Biology, 2018, 48, 58-66.	3.0	5
42	Blisters on graphite surface: a scanning microwave microscopy investigation. RSC Advances, 2019, 9, 23156-23160.	3.6	5
43	Inverted Scanning Microwave Microscopy for Nanometer-scale Imaging and Characterization of Platinum Diselenide. , 2019, , .		5
44	Broadband electrical impedance as a novel characterization of oxidative stress in single L6 skeletal muscle cells. Analytica Chimica Acta, 2021, 1173, 338678.	5.4	5
45	A methodology for RF modeling of packages using IC known-loads. , 2011, , .		4
46	Experimental pressure sensing and technology of piezoelectric microwave/RF MEMS filters. International Journal of Microwave and Wireless Technologies, 2011, 3, 587-593.	1.9	4
47	Graphene etching by a Near-Field Scanning Microwave Microscope. , 2013, , .		4
48	A Methodology for RF modeling of packages with external pin measurements. International Journal of RF and Microwave Computer-Aided Engineering, 2014, 24, 623-634.	1.2	4
49	Time-Domain Reflectometry for Near-Field Scanning Microwave Microscopy. , 2015, , .		4
50	Modeling and design of microwave filters employing overmoded empty cylindrical resonators. , 2015, , .		4
51	Microwave characterization of anisotropic graphene by applying the Duality theorem. Journal of Computational Electronics, 2015, 14, 214-221.	2.5	4
52	Broadband near-field scanning microwave microscopy investigation of fullerene exposure of breast cancer cells. , 2016, , .		4
53	Synthetic optical holography for in-depth imaging of optical vortices in speckle patterns. AIP Advances, 2019, 9, 015211.	1.3	4
54	USING CORRELATION MAPS IN A WIDE-BAND MICROWAVE GPR. Progress in Electromagnetics Research B, 2011, 30, 371-387.	1.0	3

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55	High resolution imaging of few-layer graphene by Near-Field Scanning Microwave Microscopy. , 2012, , .		3
56	Near field microwave microscopy for nanoscale characterization, imaging and patterning of graphene. , 2014, , .		3
57	Optical microcavity scanning 3D tomography. Optics Letters, 2014, 39, 5495.	3.3	3
58	Robust control of piezostage for nanoscale three-dimensional images acquisition. , 2016, , .		3
59	Generalized Thru-Reflect-Line Calibration Technique for the Measurement of Multimodal Radiating Waveguides. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 844-847.	4.0	3
60	Inverted Scanning Microwave Microscopy of a Vital Mitochondrion in Liquid. IEEE Microwave and Wireless Components Letters, 2022, 32, 804-806.	3.2	3
61	Electromagnetic investigation on the propagation in distributed active devices. IET Microwaves Antennas and Propagation, 1997, 144, 281.	1.2	2
62	Full-wave modeling of linear FETs for millimeter waves. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1443-1450.	4.6	2
63	Comments on "On deembedding of port discontinuities in full-wave CAD models of multiport circuits" and related comments. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1829.	4.6	2
64	Infrared imaging of fixed-cells through micro-cavity fiber optic scanning microscopy. Proceedings of SPIE, 2013, , .	0.8	2
65	Full electromagnetic simulation of a scanning microwave microscope for quantitative estimation of material properties. , 2015, , .		2
66	Quantitative scanning microwave microscopy of 2D electron and hole gases in AlN/GaN heterostructures. Applied Physics Letters, 2022, 120, 012103.	3.3	2
67	A new approach to the efficient determination of the hybrid and complex spectrum of inhomogeneous, closed waveguide. , 1995, , .		1
68	Modal Propagation, Energy Storage, and Dissipation in Uniform, Linear, Isotropic Waveguides. Electromagnetics, 1996, 16, 213-227.	0.7	1
69	Determining the Efficiency of Fast Ultrahigh-density Writing of Low-Conductivity Patterns on Semiconducting Polymers. Materials Research Society Symposia Proceedings, 2015, 1729, 125-130.	0.1	1
70	Scanning microwave microscopy of aluminum CMOS interconnect lines buried in oxide and water. , 2017, , .		1
71	Electrical properties of Jurkat cells: an inverted scanning microwave microscope study. , 2020, , .		1
72	Heterodyne phase shifting method in scanning probe microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 378.	1.5	1

#	ARTICLE	IF	CITATIONS
73	Accurate modeling of high frequency microelectromechanical systems (MEMS) switches in time- and frequency-domain. <i>Advances in Radio Science</i> , 0, 1, 135-138.	0.7	1
74	A C-Band Quasi-Optical Self-Oscillating Balanced Mixer. , 2001, , .		0
75	On the extension of commercial planar circuit CAD packages to the analysis of two-port waveguide components. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2003, 13, 113-117.	1.2	0
76	Corrections to "A Technique for the Measurement of the Generalized Scattering Matrix of Overmoded Waveguide Devices" [Jul 13 2705-2714]. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013, 61, 4283-4283.	4.6	0
77	Fiber-optic scanning microscopy for imaging in liquid environment: A novel technique for biological applications. , 2014, , .		0
78	Microwaves and Microscopy [From the Guest Editors' Desk]. <i>IEEE Microwave Magazine</i> , 2020, 21, 19-21.	0.8	0
79	Quantitative Scanning Microwave Microscopy of Few-layer Platinum Diselenide. , 2021, , .		0
80	Low-Coherence Interferometry Optical Sensor for the Characterization of Deposited Thin Film. , 2010, , .		0
81	Birth and Development of the "Electromagnetic Fields" Group. , 2019, , 23-36.		0
82	10.1063/1.5053564.1. , 2019, , .		0
83	Quantitative Phase Imaging of Embedded Scattering Surfaces by Synthetic Optical Holography. , 2020, , .		0
84	Dynamics of Optical Vortices in Speckle Patterns with Sub-Nanometric Spectral Resolution. , 2020, , .		0