

Romolo Marcelli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113 papers	699 citations	12 h-index	20 g-index
155 ext. papers	885 ext. citations	2.2 avg, IF	3.23 L-index

#	Paper	IF	Citations
113	Local Characterization of Ferromagnetic Resonance in Bulk and Patterned Magnetic Materials using Scanning Microwave Microscopy. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	2
112	Analysis of dielectric constant behavior of thermally treated SU-8 polymer up to 18 GHz. <i>Materials Research Bulletin</i> , 2022 , 150, 111755	5.1	
111	Self-Action Effects in the Propagation of Surface Magnetostatic Wave Pulses in a Magnonic CrystalDielectricMetal Structure. <i>Technical Physics</i> , 2019 , 64, 1629-1635	0.5	2
110	Fabrication and test of RF MEMS in LTCC technology. <i>Microsystem Technologies</i> , 2018 , 24, 511-518	1.7	1
109	A microfluidic sensor in coplanar waveguide configuration for localized micrometric liquid spectroscopy in microwaves regime. <i>Microsystem Technologies</i> , 2018 , 1	1.7	1
108	Wafer-level micropackaging in thin film technology for RF MEMS applications. <i>Microsystem Technologies</i> , 2018 , 24, 575-585	1.7	7
107	Cycling reliability of RF-MEMS switches with GoldPlatinum multilayers as contact material. <i>Microsystem Technologies</i> , 2017 , 23, 3843-3850	1.7	9
106	Narrow-band filtering by means of triangular meta-material resonators based on RF MEMS cantilevers in CPW configuration. <i>Microsystem Technologies</i> , 2017 , 23, 3955-3967	1.7	1
105	Transmission microwave spectroscopy for local characterization of dielectric materials. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2017 , 35, 01A113	1.3	1
104	Wafer-level thin film micropackaging for RF MEMS applications 2016 ,		1
103	RF MEMS fabrication in LTCC technology 2016 ,		2
102	THE IMAGE PHASE APPROACH FOR THE DESIGN OF RF MEMS SHUNT SWITCHES. <i>Progress in Electromagnetics Research C</i> , 2016 , 63, 173-182	0.9	
101	Scanning microwave microscopy technique for nanoscale characterization of magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 420, 62-69	2.8	10
100	A broadband toolbox for scanning microwave microscopy transmission measurements. <i>Review of Scientific Instruments</i> , 2016 , 87, 053701	1.7	6
99	Reliable response of RF MEMS LTCC packaged switches after mechanical and thermal stress. <i>Microsystem Technologies</i> , 2016 , 22, 495-501	1.7	8
98	Influence of design and fabrication on RF performance of capacitive RF MEMS switches. <i>Microsystem Technologies</i> , 2016 , 22, 1741-1746	1.7	21
97	De-embedding techniques for nanoscale characterization of semiconductors by scanning microwave microscopy. <i>Microelectronic Engineering</i> , 2016 , 159, 64-69	2.5	4

96	Quantitative sub-surface and non-contact imaging using scanning microwave microscopy. <i>Nanotechnology</i> , 2015 , 26, 135701	3.4	38
95	Special issue on DTIP 2014. <i>Analog Integrated Circuits and Signal Processing</i> , 2015 , 82, 557-558	1.2	
94	Cycling reliability of RF-MEMS switches with gold-platinum multilayers as contact material 2015 ,		2
93	Modeling of a metallic truncated cone for electromagnetic capacitive sensors. <i>Journal of Applied Physics</i> , 2015 , 118, 074503	2.5	4
92	Neutron reflectometry studies of aluminum/NaCl aqueous solution interface under hydrostatic pressure. <i>Corrosion Science</i> , 2015 , 90, 101-106	6.8	12
91	Reliability of RF MEMS capacitive and ohmic switches for space redundancy configurations. <i>Microsystem Technologies</i> , 2015 , 21, 1903-1913	1.7	6
90	Optimization of the imaging response of scanning microwave microscopy measurements. <i>Applied Physics Letters</i> , 2015 , 107, 033107	3.4	7
89	Modeling and de-embedding the interferometric scanning microwave microscopy by means of dopant profile calibration. <i>Applied Physics Letters</i> , 2015 , 107, 223102	3.4	6
88	Transmission and reflection mode scanning microwave microscopy (SMM): Experiments, calibration, and simulations 2015 ,		3
87	Analysis of a transmission mode scanning microwave microscope for subsurface imaging at the nanoscale. <i>Applied Physics Letters</i> , 2014 , 105, 133112	3.4	17
86	Compact 12×2 Switch Matrix integrating RF MEMS switches in LTCC hermetic packages 2014 ,		5
85	Design of single and coupled microwave meta-material resonators in microsystem technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2013 , 75, 407-415	1.2	0
84	Smoothing and surface planarization of sacrificial layers in MEMS technology. <i>Microsystem Technologies</i> , 2013 , 19, 845-851	1.7	2
83	RF MEMS switches fabrication by using SU-8 technology. <i>Microsystem Technologies</i> , 2013 , 19, 929-936	1.7	8
82	Modulation instability in RF MEMS devices. <i>Analog Integrated Circuits and Signal Processing</i> , 2012 , 71, 59-67	1.2	
81	Design and technology of micro-machined coplanar grounded wave-guides. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 497	1.6	2
80	Analytic Modeling Of RF MEMS Shunt Connected Capacitive Switches. <i>Journal of Electromagnetic Waves and Applications</i> , 2012 , 26, 1168-1179	1.3	11
79	Dynamics of RF Micro-Mechanical Capacitive Shunt Switches in Coplanar Waveguide Configuration 2012 ,		3

78	RF MEMS ohmic switches for matrix configurations. <i>International Journal of Microwave and Wireless Technologies</i> , 2012 , 4, 421-433	0.8	8
77	Design and Optimization of Microwave Triangular Meta-Material Resonators in Coplanar Configuration. <i>Advances in Science and Technology</i> , 2012 , 77, 231-236	0.1	1
76	Development of capacitive RF MEMS switches with TaN and Ta ₂ O ₅ thin films 2011 ,		1
75	Microwave Inter-Connections and Switching by Means of Carbon Nano-Tubes. <i>Nanomaterials and Nanotechnology</i> , 2011 , 1, 11	2.9	1
74	Composite Right / Left Handed (CRLH) Based Devices for Microwave Applications 2010 ,		1
73	Ta ₂ O ₅ Thin Films for Capacitive RF MEMS Switches. <i>Journal of Sensors</i> , 2010 , 2010, 1-5	2	10
72	Design optimization of meta-material transmission lines for linear and non-linear microwave signal processing 2010 ,		1
71	Reliability of RF MEMS switches due to charging effects and their circuital modelling. <i>Microsystem Technologies</i> , 2010 , 16, 1111-1118	1.7	12
70	Mechanical modelling of capacitive RF MEMS shunt switches. <i>Microsystem Technologies</i> , 2010 , 16, 1057-1064	1.7	11
69	Dielectric charging in microwave microelectromechanical Ohmic series and capacitive shunt switches. <i>Journal of Applied Physics</i> , 2009 , 105, 114514	2.5	14
68	Circuitual Modelling of Shunt Capacitive RF MEMS Switches 2008 ,		2
67	Alumina and LTCC Technology for RF MEMS Switches and True Time Delay Lines 2008 ,		2
66	An equivalent-circuit model for shunt-connected coplanar microelectromechanical system switches for high frequency applications. <i>Journal of Applied Physics</i> , 2008 , 104, 084514	2.5	12
65	Packaged single pole double thru (SPDT) and true time delay lines (TTDL) based on RF MEMS switches 2008 ,		4
64	Low-loss microwave interconnections by using polymeric based coplanar waveguides on low resistivity silicon substrates. <i>Microelectronic Engineering</i> , 2008 , 85, 425-431	2.5	4
63	Fabrication of RF-MEMS switches on LTCC substrates using PECVD a-Si as sacrificial layer. <i>Microelectronic Engineering</i> , 2007 , 84, 1401-1404	2.5	4
62	Realisation of distributed RF MEMS phase shifter with very low number of switches. <i>Electronics Letters</i> , 2007 , 43, 1290	1.1	11
61	Low Design of Micromachined Coplanar Grounded Wave-Guides. <i>Semiconductor Conference, 2009 CAS 2009 International</i> , 2007 ,		1

60	RF MEMS Switches Supported by Polymeric Structures. <i>Semiconductor Conference, 2009 CAS 2009 International</i> , 2007 ,		1
59	Small-size CPW silicon resonating antenna based on transmission-line meta-material approach. <i>Electronics Letters</i> , 2007 , 43, 908	1.1	10
58	Magnetostatic surface wave bright soliton propagation in ferrite-dielectric-metal structures. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1785-1801	2	9
57	CPW Cascaded Magnetostatic-Wave Bandstop Resonators. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3347-3349	2	10
56	Broadband RF-MEMS Based SPDT 2006 ,		4
55	Broadband RF-MEMS Based SPDT 2006 ,		6
54	Propagation of magnetostatic waves in the form of rectangular pulses in YIG films. <i>Technical Physics</i> , 2006 , 51, 595-603	0.5	2
53	Digital holographic microscope for dynamic characterization of a micromechanical shunt switch 2006 , 662-666		
52	CPW magnetostatic wave band stop resonators 2005 ,		2
51	Micromachined magnetostatic wave coupled resonators. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3502-3504		
50	Experimental characterisation of 38 GHz micromachined GaAs receiver. <i>Electronics Letters</i> , 2005 , 41, 256	1.1	2
49	Band-pass magnetostatic wave resonators on micromachined silicon substrate. <i>Review of Scientific Instruments</i> , 2004 , 75, 1127-1133	1.7	4
48	Lumped element modelling of coplanar series RF MEMS switches. <i>Electronics Letters</i> , 2004 , 40, 1272	1.1	10
47	Nonlinear Schroedinger equation analysis of MSSW pulse propagation in ferrite-dielectric-metal structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 999-1000	2.8	2
46	Band-stop magnetostatic waves micromachined resonators. <i>Applied Physics Letters</i> , 2004 , 84, 2445-2447	3.4	5
45	MEMS TECHNOLOGY FOR RF SWITCHES 2004 ,		3
44	Modelling, design and realization of micromachined millimetre-wave band-pass filters. <i>International Journal of Circuit Theory and Applications</i> , 2003 , 31, 529-539	2	10
43	Phase noise characterisation of planar magnetostatic wave oscillators. <i>Electronics Letters</i> , 2003 , 39, 442	1.1	

42	Nonlinear magnetostatic surface waves pulse propagation in ferrite-dielectric-metal structure. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3105-3107	2	2
41	Magnetostatic surface wave solitons induced by cross-phase modulation. <i>Europhysics Letters</i> , 2001 , 54, 91-97	1.6	7
40	Micromachined filters for 38 and 77 GHz supported on thin membranes. <i>Journal of Micromechanics and Microengineering</i> , 2001 , 11, 301-305	2	12
39	Polyimide based GaAs micromachined millimeter wave structures. <i>Journal of Micromechanics and Microengineering</i> , 2000 , 10, 130-135	2	7
38	Characterization of microwave magnetic narrow band filters by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2000 , 87, 5971-5973	2.5	3
37	A magnetostatic wave oscillator for data relay satellite. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3488-3490	3	9
36	A generalized lumped element modeling of magnetostatic wave resonators. <i>Journal of Applied Physics</i> , 2000 , 87, 6905-6907	2.5	13
35	Parametric and modulation instabilities of magnetostatic surface spin waves in ferromagnetic films. <i>Journal of Applied Physics</i> , 1997 , 81, 1341-1347	2.5	13
34	10-um thin GaAs membrane manufactured by nonselective etching 1997 ,		4
33	Micromorphology, Microstructure and Magnetic Properties of Sputtered Garnet Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 494, 137		
32	Interaction of guided optical wave with nonlinear magnetostatic forward volume waves in ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 167, 223-228	2.8	3
31	Power handling of magnetostatic wave resonators. <i>IEEE Transactions on Magnetics</i> , 1997 , 33, 3424-3426	2	
30	Magnetostatic wave single and multiple stage resonators. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 4156-4161	19	
29	A double tapered non-linear transmission line harmonic generator 1996 ,		1
28	Microwave magnetostatic wave coupled resonators. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 471-472	2.8	1
27	Thermostability of obliquely magnetized magnetostatic wave straight edge resonators. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 4177-4179	2	
26	Design considerations for tunnel diode non-linear transmission lines. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 1719-1732		1
25	Modulational instability of surface magnetostatic waves in ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 145, L6-L10	2.8	16

24	Coupled magnetostatic volume wave straight edge resonators for multipole microwave filtering. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 3476-3478	2	5
23	Optical properties of Ca-substituted amorphous yttrium iron garnet films. <i>Optical Materials</i> , 1995 , 4, 623-627	3.3	
22	Experimental observation of microwave envelope solitons of dipolar magnetostatic waves. <i>Applied Physics Letters</i> , 1994 , 65, 249-250	3.4	4
21	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 26-36	2	18
20	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 3446-3448	2	
19	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 3013-3015	2	8
18	End reflections and triple transit contribution to the band shape of magnetostatic volume wave delay lines. <i>Journal of Applied Physics</i> , 1993 , 73, 3082-3086	2.5	5
17	Angular dependencies of thermal and nonlinear characteristics of spin wave signal processing devices. <i>Journal of Applied Physics</i> , 1993 , 73, 6463-6465	2.5	2
16	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 3303-3305	2	2
15	Growth of magnetic garnet multilayers by rf diode sputtering. <i>Materials Letters</i> , 1992 , 14, 123-126	3.3	
14	Growth by rf sputtering and characterization of magnetic garnet films. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 436-438	2.8	2
13	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 5477-5479	2	6
12	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 5471-5473	2	5
11	Phenomenological unloaded Q-factor theory for magnetostatic-wave straight-edge resonators. <i>Journal of Applied Physics</i> , 1990 , 67, 5492-5494	2.5	1
10	Wide-band linewidth measurements in yttrium iron garnet films. <i>Journal of Applied Physics</i> , 1990 , 67, 5530-5532	2.5	5
9	Ferromagnetic resonance of single-crystal YIG/GGG/YIG layers (abstract). <i>Journal of Applied Physics</i> , 1990 , 67, 5533-5533	2.5	2
8	Ferromagnetic resonance of single-crystal YIG/gadolinium gallium garnet/YIG layers. <i>Journal of Applied Physics</i> , 1990 , 67, 3088-3092	2.5	7
7	Second-order term effect on the dispersion characteristics of a magnetostatic delay line. <i>Journal of Applied Physics</i> , 1988 , 63, 3335-3337	2.5	4

6	Microwave solitons in magnetic garnet films (invited). <i>Journal of Applied Physics</i> , 1988 , 63, 4136-4140	2.5	14
5	Magnetostatic soliton propagation at microwave frequency in magnetic garnet films. <i>Physical Review Letters</i> , 1987 , 59, 481-484	7.4	99
4	A generalized ionic approach to the epitaxial growth of yttrium iron garnet films in molten solutions. <i>Materials Research Bulletin</i> , 1987 , 22, 235-248	5.1	5
3	Design and characterization of a quasi-optical mixer fabricated using silicon micromachining		1
2	Design of RF MEMS based switch matrix for space applications. <i>Advances in Radio Science</i> , 11, 143-152		2
1	Characterization and Modeling of Charging Effects in Dielectrics for the Actuation of RF MEMS Ohmic Series and Capacitive Shunt Switches		2