

# Romolo Marcelli

## List of Publications by Citations

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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	Magnetostatic soliton propagation at microwave frequency in magnetic garnet films. <i>Physical Review Letters</i> , <b>1987</b> , 59, 481-484	7.4	99
112	Quantitative sub-surface and non-contact imaging using scanning microwave microscopy. <i>Nanotechnology</i> , <b>2015</b> , 26, 135701	3.4	38
111	Influence of design and fabrication on RF performance of capacitive RF MEMS switches. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1741-1746	1.7	21
110	Magnetostatic wave single and multiple stage resonators. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 4156-4161	1.9	19
109	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 26-36	2	18
108	Analysis of a transmission mode scanning microwave microscope for subsurface imaging at the nanoscale. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 133112	3.4	17
107	Modulational instability of surface magnetostatic waves in ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1995</b> , 145, L6-L10	2.8	16
106	Dielectric charging in microwave microelectromechanical Ohmic series and capacitive shunt switches. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 114514	2.5	14
105	Microwave solitons in magnetic garnet films (invited). <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 4136-4140	2.5	14
104	Parametric and modulation instabilities of magnetostatic surface spin waves in ferromagnetic films. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 1341-1347	2.5	13
103	A generalized lumped element modeling of magnetostatic wave resonators. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 6905-6907	2.5	13
102	Neutron reflectometry studies of aluminum-baline water interface under hydrostatic pressure. <i>Corrosion Science</i> , <b>2015</b> , 90, 101-106	6.8	12
101	Reliability of RF MEMS switches due to charging effects and their circuitual modelling. <i>Microsystem Technologies</i> , <b>2010</b> , 16, 1111-1118	1.7	12
100	An equivalent-circuit model for shunt-connected coplanar microelectromechanical system switches for high frequency applications. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 084514	2.5	12
99	Micromachined filters for 38 and 77 GHz supported on thin membranes. <i>Journal of Micromechanics and Microengineering</i> , <b>2001</b> , 11, 301-305	2	12
98	Analytic Modeling Of RF MEMS Shunt Connected Capacitive Switches. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 1168-1179	1.3	11
97	Mechanical modelling of capacitive RF MEMS shunt switches. <i>Microsystem Technologies</i> , <b>2010</b> , 16, 1057-1064	1.4	11

96	Realisation of distributed RF MEMS phase shifter with very low number of switches. <i>Electronics Letters</i> , <b>2007</b> , 43, 1290	1.1	11
95	Ta2O5 Thin Films for Capacitive RF MEMS Switches. <i>Journal of Sensors</i> , <b>2010</b> , 2010, 1-5	2	10
94	CPW Cascaded Magnetostatic-Wave Bandstop Resonators. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 3347-3349	2	10
93	Small-size CPW silicon resonating antenna based on transmission-line meta-material approach. <i>Electronics Letters</i> , <b>2007</b> , 43, 908	1.1	10
92	Lumped element modelling of coplanar series RF MEMS switches. <i>Electronics Letters</i> , <b>2004</b> , 40, 1272	1.1	10
91	Modelling, design and realization of micromachined millimetre-wave band-pass filters. <i>International Journal of Circuit Theory and Applications</i> , <b>2003</b> , 31, 529-539	2	10
90	Scanning microwave microscopy technique for nanoscale characterization of magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 420, 62-69	2.8	10
89	Cycling reliability of RF-MEMS switches with Gold/Platinum multilayers as contact material. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 3843-3850	1.7	9
88	Magnetostatic surface wave bright soliton propagation in ferrite-dielectric-metal structures. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 1785-1801	2	9
87	A magnetostatic wave oscillator for data relay satellite. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 3488-3490		9
86	RF MEMS switches fabrication by using SU-8 technology. <i>Microsystem Technologies</i> , <b>2013</b> , 19, 929-936	1.7	8
85	RF MEMS ohmic switches for matrix configurations. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2012</b> , 4, 421-433	0.8	8
84	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 3013-3015	2	8
83	Reliable response of RF MEMS LTCC packaged switches after mechanical and thermal stress. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 495-501	1.7	8
82	Optimization of the imaging response of scanning microwave microscopy measurements. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 033107	3.4	7
81	Magnetostatic surface wave solitons induced by cross-phase modulation. <i>Europhysics Letters</i> , <b>2001</b> , 54, 91-97	1.6	7
80	Polyimide based GaAs micromachined millimeter wave structures. <i>Journal of Micromechanics and Microengineering</i> , <b>2000</b> , 10, 130-135	2	7
79	Ferromagnetic resonance of single-crystal YIG/gadolinium gallium garnet/YIG layers. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 3088-3092	2.5	7

78	Wafer-level micropackaging in thin film technology for RF MEMS applications. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 575-585	1.7	7
77	Reliability of RF MEMS capacitive and ohmic switches for space redundancy configurations. <i>Microsystem Technologies</i> , <b>2015</b> , 21, 1903-1913	1.7	6
76	Modeling and de-embedding the interferometric scanning microwave microscopy by means of dopant profile calibration. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 223102	3.4	6
75	Broadband RF-MEMS Based SPDT <b>2006</b> ,		6
74	. <i>IEEE Transactions on Magnetics</i> , <b>1991</b> , 27, 5477-5479	2	6
73	A broadband toolbox for scanning microwave microscopy transmission measurements. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 053701	1.7	6
72	Compact 12×2 Switch Matrix integrating RF MEMS switches in LTCC hermetic packages <b>2014</b> ,		5
71	Band-stop magnetostatic waves micromachined resonators. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2445-2447	3.4	5
70	Coupled magnetostatic volume wave straight edge resonators for multipole microwave filtering. <i>IEEE Transactions on Magnetics</i> , <b>1995</b> , 31, 3476-3478	2	5
69	End reflections and triple transit contribution to the band shape of magnetostatic volume wave delay lines. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 3082-3086	2.5	5
68	Wide-band linewidth measurements in yttrium iron garnet films. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 5530-5532	2.5	5
67	. <i>IEEE Transactions on Magnetics</i> , <b>1991</b> , 27, 5471-5473	2	5
66	A generalized ionic approach to the epitaxial growth of yttrium iron garnet films in molten solutions. <i>Materials Research Bulletin</i> , <b>1987</b> , 22, 235-248	5.1	5
65	Modeling of a metallic truncated cone for electromagnetic capacitive sensors. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 074503	2.5	4
64	10-um thin GaAs membrane manufactured by nonselective etching <b>1997</b> ,		4
63	Packaged single pole double thru (SPDT) and true time delay lines (TTDL) based on RF MEMS switches <b>2008</b> ,		4
62	Fabrication of RF-MEMS switches on LTCC substrates using PECVD a-Si as sacrificial layer. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1401-1404	2.5	4
61	Low-loss microwave interconnections by using polymeric based coplanar waveguides on low resistivity silicon substrates. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 425-431	2.5	4

60	Broadband RF-MEMS Based SPDT <b>2006,</b>		4
59	Band-pass magnetostatic wave resonators on micromachined silicon substrate. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 1127-1133	1.7	4
58	Experimental observation of microwave envelope solitons of dipolar magnetostatic waves. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 249-250	3.4	4
57	Second-order term effect on the dispersion characteristics of a magnetostatic delay line. <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 3335-3337	2.5	4
56	De-embedding techniques for nanoscale characterization of semiconductors by scanning microwave microscopy. <i>Microelectronic Engineering</i> , <b>2016</b> , 159, 64-69	2.5	4
55	Transmission and reflection mode scanning microwave microscopy (SMM): Experiments, calibration, and simulations <b>2015,</b>		3
54	Dynamics of RF Micro-Mechanical Capacitive Shunt Switches in Coplanar Waveguide Configuration <b>2012,</b>		3
53	Interaction of guided optical wave with nonlinear magnetostatic forward volume waves in ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1997</b> , 167, 223-228	2.8	3
52	Characterization of microwave magnetic narrow band filters by ferromagnetic resonance. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 5971-5973	2.5	3
51	MEMS TECHNOLOGY FOR RF SWITCHES <b>2004,</b>		3
50	Cycling reliability of RF-MEMS switches with gold-platinum multilayers as contact material <b>2015,</b>		2
49	RF MEMS fabrication in LTCC technology <b>2016,</b>		2
48	Smoothing and surface planarization of sacrificial layers in MEMS technology. <i>Microsystem Technologies</i> , <b>2013</b> , 19, 845-851	1.7	2
47	Design and technology of micro-machined coplanar grounded wave-guides. <i>IET Microwaves, Antennas and Propagation</i> , <b>2012</b> , 6, 497	1.6	2
46	Circuitual Modelling of Shunt Capacitive RF MEMS Switches <b>2008,</b>		2
45	Alumina and LTCC Technology for RF MEMS Switches and True Time Delay Lines <b>2008,</b>		2
44	CPW magnetostatic wave band stop resonators <b>2005,</b>		2
43	Propagation of magnetostatic waves in the form of rectangular pulses in YIG films. <i>Technical Physics</i> , <b>2006</b> , 51, 595-603	0.5	2

42	Nonlinear Schroedinger equation analysis of MSSW pulse propagation in ferrite-dielectric-metal structure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 999-1000	2.8	2
41	Experimental characterisation of 38 GHz micromachined GaAs receiver. <i>Electronics Letters</i> , <b>2005</b> , 41, 256	1.1	2
40	Nonlinear magnetostatic surface waves pulse propagation in ferrite-dielectric-metal structure. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 3105-3107	2	2
39	Angular dependencies of thermal and nonlinear characteristics of spin wave signal processing devices. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 6463-6465	2.5	2
38	. <i>IEEE Transactions on Magnetics</i> , <b>1992</b> , 28, 3303-3305	2	2
37	Growth by rf sputtering and characterization of magnetic garnet films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 436-438	2.8	2
36	Ferromagnetic resonance of single-crystal YIG/GGG/YIG layers (abstract). <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 5533-5533	2.5	2
35	Local Characterization of Ferromagnetic Resonance in Bulk and Patterned Magnetic Materials using Scanning Microwave Microscopy. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
34	Design of RF MEMS based switch matrix for space applications. <i>Advances in Radio Science</i> , <b>11</b> , 143-152		2
33	Characterization and Modeling of Charging Effects in Dielectrics for the Actuation of RF MEMS Ohmic Series and Capacitive Shunt Switches		2
32	Self-Action Effects in the Propagation of Surface Magnetostatic Wave Pulses in a Magnonic Crystal Dielectric Metal Structure. <i>Technical Physics</i> , <b>2019</b> , 64, 1629-1635	0.5	2
31	Narrow-band filtering by means of triangular meta-material resonators based on RF MEMS cantilevers in CPW configuration. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 3955-3967	1.7	1
30	Transmission microwave spectroscopy for local characterization of dielectric materials. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 01A113	1.3	1
29	Fabrication and test of RF MEMS in LTCC technology. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 511-518	1.7	1
28	Wafer-level thin film micropackaging for RF MEMS applications <b>2016</b> ,		1
27	A microfluidic sensor in coplanar waveguide configuration for localized micrometric liquid spectroscopy in microwaves regime. <i>Microsystem Technologies</i> , <b>2018</b> , 1	1.7	1
26	Development of capacitive RF MEMS switches with TaN and Ta <sub>2</sub> O <sub>5</sub> thin films <b>2011</b> ,		1
25	Microwave Inter-Connections and Switching by Means of Carbon Nano-Tubes. <i>Nanomaterials and Nanotechnology</i> , <b>2011</b> , 1, 11	2.9	1

24	Composite Right / Left Handed (CRLH) Based Devices for Microwave Applications <b>2010</b> ,		1
23	Design optimization of meta-material transmission lines for linear and non-linear microwave signal processing <b>2010</b> ,		1
22	Design and Optimization of Microwave Triangular Meta-Material Resonators in Coplanar Configuration. <i>Advances in Science and Technology</i> , <b>2012</b> , 77, 231-236	0.1	1
21	Design and characterization of a quasi-optical mixer fabricated using silicon micromachining		1
20	Low Design of Micromachined Coplanar Grounded Wave-Guides. <i>Semiconductor Conference, 2009 CAS 2009 International</i> , <b>2007</b> ,		1
19	RF MEMS Switches Supported by Polymeric Structures. <i>Semiconductor Conference, 2009 CAS 2009 International</i> , <b>2007</b> ,		1
18	Design considerations for tunnel diode non-linear transmission lines. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1995</b> , 16, 1719-1732		1
17	A double tapered non-linear transmission line harmonic generator <b>1996</b> ,		1
16	Microwave magnetostatic wave coupled resonators. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 157-158, 471-472	2.8	1
15	Phenomenological unloaded Q-factor theory for magnetostatic-wave straight-edge resonators. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 5492-5494	2.5	1
14	Design of single and coupled microwave meta-material resonators in microsystem technology. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2013</b> , 75, 407-415	1.2	0
13	Special issue on DTIP 2014. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2015</b> , 82, 557-558	1.2	
12	Modulation instability in RF MEMS devices. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2012</b> , 71, 59-67	1.2	
11	Micromorphology, Microstructure and Magnetic Properties of Sputtered Garnet Multilayers. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 494, 137		
10	Power handling of magnetostatic wave resonators. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 3424-3426		2
9	Phase noise characterisation of planar magnetostatic wave oscillators. <i>Electronics Letters</i> , <b>2003</b> , 39, 442	1.1	
8	Micromachined magnetostatic wave coupled resonators. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3502-3504		
7	Thermostability of obliquely magnetized magnetostatic wave straight edge resonators. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 4177-4179	2	

- 6 . *IEEE Transactions on Magnetics*, **1993**, 29, 3446-3448 2
- 5 Optical properties of Ca-substituted amorphous yttrium iron garnet films. *Optical Materials*, **1995**, 4, 623-627 3.3
- 4 Growth of magnetic garnet multilayers by rf diode sputtering. *Materials Letters*, **1992**, 14, 123-126 3.3
- 3 Analysis of dielectric constant behavior of thermally treated SU-8 polymer up to 18 GHz. *Materials Research Bulletin*, **2022**, 150, 111755 5.1
- 2 Digital holographic microscope for dynamic characterization of a micromechanical shunt switch **2006**, 662-666
- 1 THE IMAGE PHASE APPROACH FOR THE DESIGN OF RF MEMS SHUNT SWITCHES. *Progress in Electromagnetics Research C*, **2016**, 63, 173-182 0.9