

# Viviana Mulloni

## List of Publications by Citations

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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.

62

papers

838

citations

16

h-index

27

g-index

70

ext. papers

954

ext. citations

2.5

avg, IF

4.23

L-index

#	Paper	IF	Citations
62	Porous silicon microcavities as optical chemical sensors. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2523-2525	3.4	172
61	All porous silicon microcavities: growth and physics. <i>Journal of Luminescence</i> , <b>1998</b> , 80, 43-52	3.8	46
60	Controlling stress and stress gradient during the release process in gold suspended micro-structures. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 162, 93-99	3.9	43
59	A comparative study of the refractive index of silk protein thin films towards biomaterial based optical devices. <i>Optical Materials</i> , <b>2018</b> , 78, 407-414	3.3	37
58	Bulk and surface contributions to second-order susceptibility in crystalline and porous silicon by second-harmonic generation. <i>Surface Science</i> , <b>2001</b> , 481, 105-112	1.8	36
57	Chipless RFID Sensors for the Internet of Things: Challenges and Opportunities. <i>Sensors</i> , <b>2020</b> , 20,	3.8	35
56	Development of a gas chromatography silicon-based microsystem in clinical diagnostics. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 1968-76	11.8	33
55	XPS and SIMS investigation on the role of nitrogen in Si nanocrystals formation. <i>Surface Science</i> , <b>2005</b> , 585, 137-143	1.8	29
54	Coupling of electrons to intermolecular phonons in molecular charge transfer dimers: A resonance Raman study. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 2795-2809	3.9	29
53	Ultrafast electron transfer reactions initiated by excited CT states of push-pull perylenes. <i>Chemical Physics</i> , <b>2002</b> , 275, 167-183	2.3	26
52	Fabrication of Nanoscale Patternable Films of Silk Fibroin Using Benign Solvents. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700110	3.9	25
51	Elaboration, characterization and aging effects of porous silicon microcavities formed on lightly p-type doped substrates. <i>Semiconductor Science and Technology</i> , <b>1999</b> , 14, 1052-1059	1.8	23
50	A simple analytical method for residual stress measurement on suspended MEM structures using surface profilometry. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 025025	2	19
49	Porous Silicon Microcavities as Optical and Electrical Chemical Sensors. <i>Physica Status Solidi A</i> , <b>2000</b> , 182, 479-484		18
48	A flexible technology platform for the fabrication of RF-MEMS devices <b>2011</b> ,		17
47	Electromechanical characterization of low actuation voltage RF MEMS capacitive switches based on DC CV measurements. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1358-1362	2.5	17
46	Influence of temperature on the actuation voltage of RF-MEMS switches. <i>Microelectronics Reliability</i> , <b>2013</b> , 53, 706-711	1.2	14

45	RF-MEMS switch design optimization for long-term reliability. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2014</b> , 78, 323-332	1.2	14
44	Porous silicon optical devices and Si/SiO <sub>2</sub> quantum wells: Recent results. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2000</b> , 80, 705-718		13
43	Precise dot inkjet printing through multifactorial statistical optimization of the piezoelectric actuator waveform. <i>Flexible and Printed Electronics</i> , <b>2020</b> , 5, 045002	3.1	13
42	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
41	Electrochemically oxidised porous silicon microcavities. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 59-65	3.1	12
40	Temperature as an accelerating factor for lifetime estimation of RF-MEMS switches. <i>Microelectronic Engineering</i> , <b>2016</b> , 160, 63-67	2.5	10
39	Electrical and mechanical properties of layered gold-chromium thin films for ohmic contacts in RF-MEMS switches. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 163, 199-203	3.1	10
38	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
37	RF-MEMS packaging by using quartz caps and epoxy polymers. <i>Microsystem Technologies</i> , <b>2015</b> , 21, 1941-1948	1.7	8
36	Clear evidence of mechanical deformation in RF-MEMS switches during prolonged actuation. <i>Journal of Micromechanics and Microengineering</i> , <b>2014</b> , 24, 075003	2	8
35	Optical characterization of reverse biased porous silicon light emitting diode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 114-117	3.1	8
34	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
33	. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 3825-3831	2.9	7
32	Gold-based thin multilayers for ohmic contacts in RF-MEMS switches. <i>Microsystem Technologies</i> , <b>2012</b> , 18, 965-971	1.7	7
31	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
30	Preconditioning Procedure for the Better Estimation of the Long-Term Lifetime in Microelectromechanical Switches. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 1274-1280	2.9	6
29	Broadband RF-MEMS Based SPDT <b>2006</b> ,		6
28	Aluminum doped zinc oxide coatings at low temperature by atmospheric pressure plasma jet. <i>Thin Solid Films</i> , <b>2020</b> , 708, 138118	2.2	5

27	Continuous extraction of proteins with a miniaturized electrical split-flow cell equipped with suspended splitters fabricated by dry film lamination. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 627-634	8.5	5
26	Light emitting diodes based on anodically oxidized silicon/porous silicon heterojunction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 109-113	3.1	5
25	A Preliminary Microwave Frequency Characterization of a Nafion-Based Chipless Sensor for Humidity Monitoring <b>2020</b> ,		5
24	Broadband RF-MEMS Based SPDT <b>2006</b> ,		4
23	Improving the Sensitivity of Chipless RFID Sensors: The Case of a Low-Humidity Sensor. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2861	2.6	4
22	Long-term lifetime prediction for RF-MEMS switches. <i>Journal of Micromechanics and Microengineering</i> , <b>2016</b> , 26, 074004	2	4
21	Influence of fabrication tolerances on the reliability of RF-MEMS capacitive switches <b>2015</b> ,		3
20	An accelerated thermal cycling test for RF-MEMS switches. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1585-1592	2.7	3
19	Electro-thermal analysis of RF MEM capacitive switches for high-power applications <b>2010</b> ,		3
18	Design and characterization of an active recovering mechanism for high-performance RF MEMS redundancy switches. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2011</b> , 3, 539-546	0.8	3
17	Effects of the mixing of charge transfer and molecular excitations on the resonance Raman properties of symmetric radical dimers. <i>Chemical Physics Letters</i> , <b>1996</b> , 263, 331-337	2.5	3
16	MEMS packaging by using dry film resist <b>2015</b> ,		2
15	Cycling reliability of RF-MEMS switches with gold-platinum multilayers as contact material <b>2015</b> ,		2
14	Reliability of capacitive RF MEMS switches subjected to repetitive impact cycles at different temperatures <b>2014</b> ,		2
13	Effect of the substrate on RF power-handling capability of micro-electromechanical capacitive switches. <i>Solid-State Electronics</i> , <b>2011</b> , 65-66, 219-225	1.7	2
12	Circuitual Modelling of Shunt Capacitive RF MEMS Switches <b>2008</b> ,		2
11	A dry film technology for the manufacturing of 3-D multi-layered microstructures and buried channels for lab-on-chip. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 3219-3233	1.7	2
10	Terahertz microsensor for biomedical applications <b>2011</b> ,		1

9	Design of an electrophoretic module for protein separation <b>2016</b> ,		1
8	Wet release technology for bulk-silicon resonators fabrication on silicon-on-insulator substrate. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , <b>2013</b> , 12, 041206	0.7	0
7	Chipless RFID Sensing System for Precise Ethanol Determination in Alcoholic Solutions. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 735	2.6	0
6	Instability and Drift Phenomena in Switching RF-MEMS Microsystems. <i>Actuators</i> , <b>2019</b> , 8, 15	2.4	
5	A Miniaturized SPLITT System for On-Line Protein Separation. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 527	0.3	
4	Nitrogen Influence on the Photoluminescence Properties of Silicon Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 958, 1		
3	Near-field optical investigation of porous silicon samples. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2000</b> , 80, 611-621		
2	DESIGN OF AN ULTRA WIDE BAND ANTENNA BASED ON A SIW RESONATOR. <i>Progress in Electromagnetics Research C</i> , <b>2020</b> , 103, 187-197	0.9	
1	A Continuous Flow Microelectrophoretic Module for Protein Separation. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 107-113	0.2	