Viviana Mulloni

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Porous silicon microcavities as optical chemical sensors. Applied Physics Letters, 2000, 76, 2523-2525.	3.3	197
2	Chipless RFID Sensors for the Internet of Things: Challenges and Opportunities. Sensors, 2020, 20, 2135.	3.8	75
3	All porous silicon microcavities: growth and physics. Journal of Luminescence, 1998, 80, 43-52.	3.1	54
4	Controlling stress and stress gradient during the release process in gold suspended micro-structures. Sensors and Actuators A: Physical, 2010, 162, 93-99.	4.1	49
5	A comparative study of the refractive index of silk protein thin films towards biomaterial based optical devices. Optical Materials, 2018, 78, 407-414.	3.6	47
6	Bulk and surface contributions to second-order susceptibility in crystalline and porous silicon by second-harmonic generation. Surface Science, 2001, 481, 105-112.	1.9	43
7	Development of a gas chromatography silicon-based microsystem in clinical diagnostics. Biosensors and Bioelectronics, 2005, 20, 1968-1976.	10.1	35
8	Fabrication of Nanoscale Patternable Films of Silk Fibroin Using Benign Solvents. Macromolecular Materials and Engineering, 2017, 302, 1700110.	3.6	33
9	XPS and SIMS investigation on the role of nitrogen in Si nanocrystals formation. Surface Science, 2005, 585, 137-143.	1.9	32
10	Ultrafast electron transfer reactions initiated by excited CT states of push–pull perylenes. Chemical Physics, 2002, 275, 167-183.	1.9	31
11	Coupling of electrons to intermolecular phonons in molecular charge transfer dimers: A resonance Raman study. Journal of Chemical Physics, 1995, 103, 2795-2809.	3.0	29
12	Elaboration, characterization and aging effects of porous silicon microcavities formed on lightly p-type doped substrates. Semiconductor Science and Technology, 1999, 14, 1052-1059.	2.0	28
13	A flexible technology platform for the fabrication of RF-MEMS devices. , 2011, , .		26
14	A simple analytical method for residual stress measurement on suspended MEM structures using surface profilometry. Journal of Micromechanics and Microengineering, 2013, 23, 025025.	2.6	24
15	An equivalent-circuit model for shunt-connected coplanar microelectromechanical system switches for high frequency applications. Journal of Applied Physics, 2008, 104, 084514.	2.5	21
16	Porous Silicon Microcavities as Optical and Electrical Chemical Sensors. Physica Status Solidi A, 2000, 182, 479-484.	1.7	20
17	Electromechanical characterization of low actuation voltage RF MEMS capacitive switches based on DC CV measurements. Microelectronic Engineering, 2007, 84, 1358-1362.	2.4	18
18	Influence of temperature on the actuation voltage of RF-MEMS switches. Microelectronics Reliability, 2013, 53, 706-711.	1.7	17

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19	RF-MEMS switch design optimization for long-term reliability. Analog Integrated Circuits and Signal Processing, 2014, 78, 323-332.	1.4	17
20	Porous silicon optical devices and Si/SiO ₂ quantum wells: Recent results. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 705-718.	0.6	16
21	Precise dot inkjet printing thought multifactorial statistical optimization of the piezoelectric actuator waveform. Flexible and Printed Electronics, 2020, 5, 045002.	2.7	16
22	Broadband RF-MEMS Based SPDT. , 2006, , .		15
23	Temperature as an accelerating factor for lifetime estimation of RF-MEMS switches. Microelectronic Engineering, 2016, 160, 63-67.	2.4	14
24	A Preliminary Microwave Frequency Characterization of a Nafion-Based Chipless Sensor for Humidity Monitoring. , 2020, , .		13
25	Improving the Sensitivity of Chipless RFID Sensors: The Case of a Low-Humidity Sensor. Electronics (Switzerland), 2021, 10, 2861.	3.1	13
26	Electrochemically oxidised porous silicon microcavities. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 59-65.	3.5	12
27	Reliable response of RF MEMS LTCC packaged switches after mechanical and thermal stress. Microsystem Technologies, 2016, 22, 495-501.	2.0	12
28	Cycling reliability of RF-MEMS switches with Gold–Platinum multilayers as contact material. Microsystem Technologies, 2017, 23, 3843-3850.	2.0	12
29	Electrical and mechanical properties of layered gold–chromium thin films for ohmic contacts in RF-MEMS switches. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 163, 199-203.	3.5	10
30	Gold-based thin multilayers for ohmic contacts in RF-MEMS switches. Microsystem Technologies, 2012, 18, 965-971.	2.0	10
31	Clear evidence of mechanical deformation in RF-MEMS switches during prolonged actuation. Journal of Micromechanics and Microengineering, 2014, 24, 075003.	2.6	10
32	Transient evolution of mechanical and electrical effects in microelectromechanical switches subjected to long-term stresses. IEEE Transactions on Electron Devices, 2015, 62, 3825-3831.	3.0	10
33	Reliability of RF MEMS capacitive and ohmic switches for space redundancy configurations. Microsystem Technologies, 2015, 21, 1903-1913.	2.0	10
34	Broadband RF-MEMS Based SPDT. , 2006, , .		9
35	RF-MEMS packaging by using quartz caps and epoxy polymers. Microsystem Technologies, 2015, 21, 1941-1948.	2.0	9
36	Preconditioning Procedure for the Better Estimation of the Long-Term Lifetime in Microelectromechanical Switches. IEEE Transactions on Electron Devices, 2016, 63, 1274-1280.	3.0	9

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37	Optical characterization of reverse biased porous silicon light emitting diode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 114-117.	3.5	8
38	Light emitting diodes based on anodically oxidized silicon/porous silicon heterojunction. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 109-113.	3.5	8
39	MEMS packaging by using dry film resist. , 2015, , .		7
40	A dry film technology for the manufacturing of 3-D multi-layered microstructures and buried channels for lab-on-chip. Microsystem Technologies, 2019, 25, 3219-3233.	2.0	7
41	Long-term lifetime prediction for RF-MEMS switches. Journal of Micromechanics and Microengineering, 2016, 26, 074004.	2.6	6
42	Aluminum doped zinc oxide coatings at low temperature by atmospheric pressure plasma jet. Thin Solid Films, 2020, 708, 138118.	1.8	6
43	Continuous extraction of proteins with a miniaturized electrical split-flow cell equipped with suspended splitters fabricated by dry film lamination. Sensors and Actuators B: Chemical, 2018, 273, 627-634.	7.8	5
44	Chipless RFID Sensing System for Precise Ethanol Determination in Alcoholic Solutions. Electronics (Switzerland), 2022, 11, 735.	3.1	5
45	Electro-thermal analysis of RF MEM capacitive switches for high-power applications. , 2010, , .		4
46	Effect of the substrate on RF power-handling capability of micro-electromechanical capacitive switches. Solid-State Electronics, 2011, 65-66, 219-225.	1.4	4
47	An accelerated thermal cycling test for RF-MEMS switches. Microsystem Technologies, 2016, 22, 1585-1592.	2.0	4
48	Effects of the mixing of charge transfer and molecular excitations on the resonance Raman properties of symmetric radical dimers. Chemical Physics Letters, 1996, 263, 331-337.	2.6	3
49	Circuital Modelling of Shunt Capacitive RF MEMS Switches. , 2008, , .		3
50	Design and characterization of an active recovering mechanism for high-performance RF MEMS redundancy switches. International Journal of Microwave and Wireless Technologies, 2011, 3, 539-546.	1.9	3
51	Influence of fabrication tolerances on the reliability of RF-MEMS capacitive switches. , 2015, , .		3
52	Cycling reliability of RF-MEMS switches with gold-platinum multilayers as contact material. , 2015, , .		3
53	Terahertz microsensor for biomedical applications. , 2011, , .		2
54	Reliability of capacitive RF MEMS switches subjected to repetitive impact cycles at different temperatures. , 2014, , .		2

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55	A Miniaturized SPLITT System for On-Line Protein Separation. Proceedings (mdpi), 2017, 1, 527.	0.2	2
56	Instability and Drift Phenomena in Switching RF-MEMS Microsystems. Actuators, 2019, 8, 15.	2.3	2
57	Optimizing the number of printed layers in a PET inkjet-printed chipless RFID sensor. , 2022, , .		2
58	Tecnological and Design Improvements for RF MEMS Shunt Switches. Semiconductor Conference, 2009 CAS 2009 International, 2007, , .	0.0	1
59	Wet release technology for bulk-silicon resonators fabrication on silicon-on-insulator substrate. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 12, 041206.	0.9	1
60	Design of an electrophoretic module for protein separation. , 2016, , .		1
61	DESIGN OF AN ULTRA WIDE BAND ANTENNA BASED ON A SIW RESONATOR. Progress in Electromagnetics Research C, 2020, 103, 187-197.	0.9	1
62	Near-field optical investigation of porous silicon samples. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 611-621.	0.6	0
63	Near-field optical investigation of porous silicon samples. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 611-621.	0.6	0
64	Nitrogen Influence on the Photoluminescence Properties of Silicon Nanocrystals. Materials Research Society Symposia Proceedings, 2006, 958, 1.	0.1	0
65	Gold-based thin multilayers for ohmic contacts in RF-MEMS switches. Proceedings of SPIE, 2011, , .	0.8	Ο
66	Thermal cycling reliability of RF-MEMS switches. Proceedings of SPIE, 2015, , .	0.8	0
67	Evidence of mechanical degradation in microelectromechanical switches subjected to long-term stresses. , 2017, , .		0
68	Ultra-Wideband Antenna Array based on Orbital Angular Momentum. , 2019, , .		0
69	A Continuous Flow Microelectrophoretic Module for Protein Separation. Lecture Notes in Electrical Engineering, 2018, , 107-113.	0.4	0