

# Laura Ruzziconi

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

462  
citations

840776

11  
h-index

888059

17  
g-index

21  
all docs

21  
docs citations

21  
times ranked

274  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Experimental and Theoretical Investigation of Dynamic Pull-In in MEMS Resonators Actuated Electrostatically. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 794-806.	2.5	101
2	Nonlinear dynamics of an electrically actuated imperfect microbeam resonator: experimental investigation and reduced-order modeling. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 075012.	2.6	59
3	An electrically actuated imperfect microbeam: Dynamical integrity for interpreting and predicting the device response. <i>Meccanica</i> , 2013, 48, 1761-1775.	2.0	46
4	AN IMPERFECT MICROBEAM UNDER AN AXIAL LOAD AND ELECTRIC EXCITATION: NONLINEAR PHENOMENA AND DYNAMICAL INTEGRITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350026.	1.7	44
5	NONLINEAR PHENOMENA IN THE SINGLE-MODE DYNAMICS OF A CABLE-SUPPORTED BEAM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 923-945.	1.7	33
6	An Efficient Reduced-Order Model to Investigate the Behavior of an Imperfect Microbeam Under Axial Load and Electric Excitation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013, 8, .	1.2	27
7	The dynamical integrity concept for interpreting/ predicting experimental behaviour: from macro- to nano-mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120423.	3.4	25
8	Multistability in an electrically actuated carbon nanotube: a dynamical integrity perspective. <i>Nonlinear Dynamics</i> , 2013, 74, 533-549.	5.2	24
9	Theoretical Prediction of Experimental Jump and Pull-In Dynamics in a MEMS Sensor. <i>Sensors</i> , 2014, 14, 17089-17111.	3.8	23
10	Two-to-one internal resonance in the higher-order modes of a MEMS beam: Experimental investigation and theoretical analysis via local stability theory. <i>International Journal of Non-Linear Mechanics</i> , 2021, 129, 103664.	2.6	18
11	Experimental and theoretical investigation of the 2:1 internal resonance in the higher-order modes of a MEMS microbeam at elevated excitations. <i>Journal of Sound and Vibration</i> , 2021, 499, 115983.	3.9	13
12	Internal resonance in the higher-order modes of a MEMS beam: experiments and global analysis. <i>Nonlinear Dynamics</i> , 2021, 103, 2197-2226.	5.2	11
13	Parameter identification of an electrically actuated imperfect microbeam. <i>International Journal of Non-Linear Mechanics</i> , 2013, 57, 208-219.	2.6	10
14	Global investigation of the nonlinear dynamics of carbon nanotubes. <i>Acta Mechanica</i> , 2017, 228, 1029-1043.	2.1	7
15	Dynamical Integrity: A Novel Paradigm for Evaluating Load Carrying Capacity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019, , 27-112.	0.6	4
16	Nonlinear dynamics of a MEMS resonator: Theoretical and experimental investigation. , 2012, , .		3
17	Interpreting and Predicting Experimental Responses of Micro- and Nano-Devices via Dynamical Integrity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019, , 113-166.	0.6	3
18	Jump and pull-in dynamics of an electrically actuated bistable MEMS device. <i>MATEC Web of Conferences</i> , 2014, 16, 04001.	0.2	2

#	ARTICLE	IF	CITATIONS
19	An Electrically Actuated Microbeam-Based MEMS Device: Experimental and Theoretical Investigation. , 2017, , .		0