

Alberto Corigliano

List of Publications by Year in descending order

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203
papers

4,948
citations

101384

36
h-index

118652

62
g-index

223
all docs

223
docs citations

223
times ranked

2897
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermal actuator for nanoscale in situ microscopy testing: design and characterization. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 242-253.	1.5	262
2	Damage analysis of interlaminar fracture specimens. <i>Composite Structures</i> , 1995, 31, 61-74.	3.1	244
3	Formulation, identification and use of interface models in the numerical analysis of composite delamination. <i>International Journal of Solids and Structures</i> , 1993, 30, 2779-2811.	1.3	171
4	Modeling and simulation of crack propagation in mixed-modes interlaminar fracture specimens. <i>International Journal of Fracture</i> , 1996, 77, 111-140.	1.1	146
5	Mechanical behavior of a syntactic foam: experiments and modeling. <i>International Journal of Solids and Structures</i> , 2000, 37, 5773-5794.	1.3	139
6	Parameter identification in explicit structural dynamics: performance of the extended Kalman filter. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3807-3835.	3.4	139
7	A Resonant Microaccelerometer With High Sensitivity Operating in an Oscillating Circuit. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1140-1152.	1.7	139
8	Mechanical Characterization of Polysilicon Through On-Chip Tensile Tests. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 200-219.	1.7	119
9	Experimental characterization and numerical simulations of a syntactic-foam/glass-fibre composite sandwich. <i>Composites Science and Technology</i> , 2000, 60, 2169-2180.	3.8	107
10	Modeling and experimental verification of an ultra-wide bandgap in 3D phononic crystal. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	107
11	3D auxetic single material periodic structure with ultra-wide tunable bandgap. <i>Scientific Reports</i> , 2018, 8, 2262.	1.6	96
12	Geometrical and interfacial non-linearities in the analysis of delamination in composites. <i>International Journal of Solids and Structures</i> , 1999, 36, 2189-2216.	1.3	94
13	Graded elastic metasurface for enhanced energy harvesting. <i>New Journal of Physics</i> , 2020, 22, 013013.	1.2	92
14	Self-induced parametric amplification arising from nonlinear elastic coupling in a micromechanical resonating disk gyroscope. <i>Scientific Reports</i> , 2015, 5, 9036.	1.6	91
15	Solid damping in micro electro mechanical systems. <i>Meccanica</i> , 2008, 43, 419-428.	1.2	88
16	Rate-dependent interface models: formulation and numerical applications. <i>International Journal of Solids and Structures</i> , 2001, 38, 547-576.	1.3	85
17	Impact induced composite delamination: state and parameter identification via joint and dual extended Kalman filters. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 5242-5272.	3.4	67
18	Multi-scale Analysis of MEMS Sensors Subject to Drop Impacts. <i>Sensors</i> , 2007, 7, 1817-1833.	2.1	63

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19	Low frequency 3D ultra-wide vibration attenuation via elastic metamaterial. <i>Scientific Reports</i> , 2019, 9, 8039.	1.6	59
20	Some aspects of interlaminar degradation in composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 185, 203-224.	3.4	56
21	Experimental evaluation and numerical modeling of adhesion phenomena in polysilicon MEMS. <i>Meccanica</i> , 2013, 48, 1835-1844.	1.2	56
22	Model Order Reduction and domain decomposition strategies for the solution of the dynamic elastic-plastic structural problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 290, 127-155.	3.4	55
23	Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws. <i>International Journal of Solids and Structures</i> , 1995, 32, 3145-3166.	1.3	53
24	Experimental verification of a bridge-shaped, nonlinear vibration energy harvester. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	51
25	Experimental investigation of amplification, via a mechanical delay-line, in a rainbow-based metamaterial for energy harvesting. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	51
26	Mechanical low-frequency filter via modes separation in 3D periodic structures. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	50
27	Modeling Impact-induced Failure of Polysilicon MEMS: A Multi-scale Approach. <i>Sensors</i> , 2009, 9, 556-567.	2.1	47
28	A discrete formulation for elastic solids with damaging interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997, 140, 329-359.	3.4	45
29	Numerical modeling of rate-dependent debonding processes in composites. <i>Composite Structures</i> , 2003, 61, 39-50.	3.1	45
30	Numerical analysis of rate-dependent dynamic composite delamination. <i>Composites Science and Technology</i> , 2006, 66, 766-775.	3.8	45
31	Extremum properties of finite-step solutions in elastoplasticity with nonlinear mixed hardening. <i>International Journal of Solids and Structures</i> , 1991, 27, 965-981.	1.3	42
32	Title is missing!. <i>International Journal of Fracture</i> , 2000, 104, 349-373.	1.1	40
33	Parameter identification of a time-dependent elastic-damage interface model for the simulation of debonding in composites. <i>Composites Science and Technology</i> , 2001, 61, 191-203.	3.8	40
34	A three-scale FE approach to reliability analysis of MEMS sensors subject to impacts. <i>Meccanica</i> , 2008, 43, 469-483.	1.2	40
35	Polysilicon MEMS accelerometers exposed to shocks: numerical-experimental investigation. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035023.	1.5	39
36	Monte carlo simulation of micro-cracking in polysilicon MEMS exposed to shocks. <i>International Journal of Fracture</i> , 2011, 167, 83-101.	1.1	38

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37	Selective Mode Conversion and Rainbow Trapping via Graded Elastic Waveguides. <i>Physical Review Applied</i> , 2021, 16, .	1.5	37
38	Simulation of damage in composites by means of interface models: parameter identification. <i>Composites Science and Technology</i> , 2001, 61, 2299-2315.	3.8	35
39	Synthesis of auxetic structures using optimization of compliant mechanisms and a micropolar material model. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1-12.	1.7	35
40	OVERALL ELASTIC PROPERTIES OF POLYSILICON FILMS: A STATISTICAL INVESTIGATION OF THE EFFECTS OF POLYCRYSTAL MORPHOLOGY. <i>International Journal for Multiscale Computational Engineering</i> , 2011, 9, 327-346.	0.8	34
41	Compact biaxial micromachined resonant accelerometer. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 105012.	1.5	33
42	A resonant micro accelerometer based on electrostatic stiffness variation. <i>Meccanica</i> , 2013, 48, 1893-1900.	1.2	32
43	Improved one-dimensional model of piezoelectric laminates for energy harvesters including three dimensional effects. <i>Composite Structures</i> , 2015, 127, 369-381.	3.1	32
44	Modelling of spontaneous adhesion phenomena in micro-electro-mechanical systems. <i>European Journal of Mechanics, A/Solids</i> , 2013, 39, 144-152.	2.1	31
45	Numerical solution of the Duffing equation with random coefficients. <i>Meccanica</i> , 2015, 50, 1841-1853.	1.2	30
46	The First 3D-Printed and Wet-Metallized Three-Axis Accelerometer With Differential Capacitive Sensing. <i>IEEE Sensors Journal</i> , 2019, 19, 9131-9138.	2.4	30
47	Fully convolutional networks for structural health monitoring through multivariate time series classification. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020, 7, .	0.7	30
48	Dynamic shakedown in elastoplastic structures with general internal variable constitutive laws. <i>International Journal of Plasticity</i> , 1991, 7, 679-692.	4.1	29
49	Finite elements with embedded displacement discontinuity: a generalized variable formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 49, 1227-1266.	1.5	29
50	Two-Scale Simulation of Drop-Induced Failure of Polysilicon MEMS Sensors. <i>Sensors</i> , 2011, 11, 4972-4989.	2.1	29
51	Online structural health monitoring by model order reduction and deep learning algorithms. <i>Computers and Structures</i> , 2021, 255, 106604.	2.4	29
52	The First 3-D-Printed z-Axis Accelerometers With Differential Capacitive Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 53-60.	2.4	28
53	Numerical modelling of impact rupture in polysilicon microsystems. <i>Computational Mechanics</i> , 2008, 42, 251-259.	2.2	27
54	Domain decomposition and model order reduction methods applied to the simulation of multi-physics problems in MEMS. <i>Computers and Structures</i> , 2013, 122, 113-127.	2.4	27

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55	Optimal 2D auxetic micro-structures with band gap. <i>Meccanica</i> , 2019, 54, 2001-2027.	1.2	27
56	A design strategy to match the band gap of periodic and aperiodic metamaterials. <i>Scientific Reports</i> , 2020, 10, 16403.	1.6	27
57	Mechanical behaviour of a syntactic foam/glass fibre composite sandwich: experimental results. <i>Structural Engineering and Mechanics</i> , 2001, 12, 169-188.	1.0	27
58	A new on-chip test structure for real time fatigue analysis in polysilicon MEMS. <i>Microelectronics Reliability</i> , 2009, 49, 120-126.	0.9	26
59	Dynamic nonlinear behavior of torsional resonators in MEMS. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 095025.	1.5	26
60	On the application of piezolaminated composites to diaphragm micropumps. <i>Composite Structures</i> , 2013, 99, 231-240.	3.1	25
61	3-D Design and Simulation of a Piezoelectric Micropump. <i>Micromachines</i> , 2019, 10, 259.	1.4	24
62	A metaplate for complete 3D vibration isolation. <i>European Journal of Mechanics, A/Solids</i> , 2020, 84, 104016.	2.1	24
63	MEMS-based surface mounted health monitoring system for composite laminates. <i>Microelectronics Journal</i> , 2013, 44, 598-605.	1.1	23
64	Sensitivity and temperature behavior of a novel <i>z</i> -axis differential resonant micro accelerometer. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 035006.	1.5	23
65	On-Chip Electrostatically Actuated Bending Tests for the Mechanical Characterization of Polysilicon at the Micro Scale. <i>Meccanica</i> , 2005, 40, 485-503.	1.2	22
66	A high sensitivity uniaxial resonant accelerometer. , 2010, , .		22
67	A new MEMS three-axial frequency-modulated (FM) gyroscope: a mechanical perspective. <i>European Journal of Mechanics, A/Solids</i> , 2018, 70, 203-212.	2.1	22
68	A microsystem for the fracture characterization of polysilicon at the micro-scale. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 127-136.	2.1	21
69	SHM under varying environmental conditions: an approach based on model order reduction and deep learning. <i>Computers and Structures</i> , 2022, 266, 106790.	2.4	21
70	A PLATE MODEL FOR THE EVALUATION OF PULL-IN INSTABILITY OCCURRENCE IN ELECTROSTATIC MICROPUMP DIAPHRAGMS. <i>International Journal of Applied Mechanics</i> , 2011, 03, 1-19.	1.3	20
71	Non-linear mechanics in resonant inertial micro sensors. <i>International Journal of Non-Linear Mechanics</i> , 2020, 120, 103386.	1.4	19
72	Geometry optimization of a Lorentz force, resonating MEMS magnetometer. <i>Microelectronics Reliability</i> , 2014, 54, 1192-1199.	0.9	18

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73	Advanced models for the calculation of capillary attraction in axisymmetric configurations. European Journal of Mechanics, A/Solids, 2014, 47, 298-308.	2.1	18
74	An Efficient Earth Magnetic Field MEMS Sensor: Modeling, Experimental Results, and Optimization. Journal of Microelectromechanical Systems, 2015, 24, 887-895.	1.7	18
75	Multiphysics modelling and experimental validation of an air-coupled array of PMUTs with residual stresses. Journal of Micromechanics and Microengineering, 2018, 28, 054005.	1.5	18
76	Out of plane vs in plane flexural behaviour of thin polysilicon films: Mechanical characterization and application of the Weibull approach. Microelectronics Reliability, 2005, 45, 1758-1763.	0.9	17
77	On-Chip Mechanical Characterization using an Electro-thermo-mechanical Actuator. Experimental Mechanics, 2010, 50, 695-707.	1.1	17
78	Enhancing the Linear Range of MEMS Resonators for Sensing Applications. IEEE Sensors Journal, 2011, 11, 3202-3210.	2.4	17
79	Overall elastic domain of thin polysilicon films. Computational Materials Science, 2011, 50, 2993-3004.	1.4	17
80	A Differential Resonant Micro Accelerometer for Out-of-plane Measurements. Procedia Engineering, 2014, 87, 640-643.	1.2	17
81	Predicting the closed-loop stability and oscillation amplitude of nonlinear parametrically amplified oscillators. Applied Physics Letters, 2015, 106, .	1.5	17
82	Design, Fabrication and Experimental Validation of a Metaplate for Vibration Isolation in MEMS. Journal of Microelectromechanical Systems, 2020, 29, 1401-1410.	1.7	17
83	Wearable Ball-Impact Piezoelectric Multi-Converters for Low-Frequency Energy Harvesting from Human Motion. Sensors, 2022, 22, 772.	2.1	16
84	The effect of nano-scale interaction forces on the premature pull-in of real-life Micro-Electro-Mechanical Systems. Microelectronics Reliability, 2012, 52, 271-281.	0.9	15
85	Identification of a constitutive model for the simulation of time-dependent interlaminar debonding processes in composites. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 1861-1894.	3.4	14
86	Modelling of interlaminar fracture processes in composites using interface elements. Composites Science and Technology, 2006, 66, 255-263.	3.8	14
87	A new biaxial silicon resonant micro accelerometer. , 2011, , .		14
88	Physically-Based Reduced Order Modelling of a Uni-Axial Polysilicon MEMS Accelerometer. Sensors, 2012, 12, 13985-14003.	2.1	14
89	Advanced Model for Fast Assessment of Piezoelectric Micro Energy Harvesters. Frontiers in Materials, 2016, 3, .	1.2	14
90	On uniqueness of the dynamic finite-step problem in gradient-dependent softening plasticity. International Journal of Solids and Structures, 1996, 33, 3881-3902.	1.3	13

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91	Design of piezoMEMS for high strain rate nanomechanical experiments. <i>Extreme Mechanics Letters</i> , 2018, 20, 14-20.	2.0	13
92	Design, fabrication and experimental validation of a MEMS periodic auxetic structure. <i>Smart Materials and Structures</i> , 2019, 28, 095011.	1.8	13
93	Enhanced Energy Harvesting of Flexural Waves in Elastic Beams by Bending Mode of Graded Resonators. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	13
94	Numerical and experimental evaluation of the magnetic interaction for frequency up-conversion in piezoelectric vibration energy harvesters. <i>Meccanica</i> , 2022, 57, 1139-1154.	1.2	13
95	Dynamic Analysis of Elastoplastic Softening Discretized Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 1992, 118, 2352-2375.	1.6	12
96	Anisotropic behaviour of porous, ductile media. <i>International Journal of Solids and Structures</i> , 2001, 38, 2427-2451.	1.3	12
97	Design of high stroke electrostatic micropumps: a charge control approach with ring electrodes. <i>Microsystem Technologies</i> , 2011, 17, 165-173.	1.2	12
98	Sensitivity, probabilistic and stochastic analysis of the thermo-piezoelectric phenomena in solids by the stochastic perturbation technique. <i>Meccanica</i> , 2012, 47, 877-891.	1.2	12
99	A domain decomposition technique applied to the solution of the coupled electro-mechanical problem. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 93, 137-159.	1.5	12
100	Non linear response and optimization of a new z-axis resonant micro-accelerometer. <i>Mechatronics</i> , 2016, 40, 235-243.	2.0	12
101	Nonlinear dynamics under varying temperature conditions of the resonating beams of a differential resonant accelerometer. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 075004.	1.5	12
102	An Autoencoder-Based Deep Learning Approach for Load Identification in Structural Dynamics. <i>Sensors</i> , 2021, 21, 4207.	2.1	12
103	Multiscale finite-element models for predicting spontaneous adhesion in MEMS. <i>Mecanique Et Industries</i> , 2010, 11, 177-182.	0.2	11
104	A domain decomposition approach for the simulation of fracture phenomena in polycrystalline microsystems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 277, 180-218.	3.4	11
105	Air-coupled PMUT at 100 kHz with PZT active layer and residual stresses: Multiphysics model and experimental validation. , 2017, , .		11
106	Experimental and numerical evidence of comparable levels of attenuation in periodic and a-periodic metastructures. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
107	Electro-Thermal Actuator for On-Chip Nanoscale Tensile Tests: Analytical Modelling and Multi-Physics Simulations. <i>Sensor Letters</i> , 2007, 5, 592-607.	0.4	11
108	Generalized midpoint finite element dynamic analysis of elastoplastic systems. <i>International Journal for Numerical Methods in Engineering</i> , 1993, 36, 361-383.	1.5	10

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109	Damage and Fracture Mechanics Techniques for Composite Structures. , 2003, , 459-539.		9
110	A new two-beam differential resonant micro accelerometer. , 2009, , .		9
111	Multiphysics Analysis and Experimental Validation of an air Coupled Piezoelectric Micromachined Ultrasonic Transducer with Residual Stresses. Procedia Engineering, 2016, 168, 852-855.	1.2	9
112	Evaluation of adhesion in microsystems using equivalent rough surfaces modeled with spherical caps. European Journal of Mechanics, A/Solids, 2016, 57, 121-131.	2.1	9
113	Piezo-micro-ultrasound-transducers for air-coupled arrays: Modeling and experiments in the linear and non-linear regimes. Extreme Mechanics Letters, 2020, 40, 100968.	2.0	9
114	On the Effects of Package on the PMUTs Performancesâ€™ Multiphysics Model and Frequency Analyses. Micromachines, 2020, 11, 307.	1.4	9
115	On the numerical evaluation of capacitance and electrostatic forces in MEMS. , 2009, , .		8
116	Modeling of a Bridge-Shaped Nonlinear Piezoelectric Energy Harvester. Energy Harvesting and Systems, 2014, 1, .	1.7	8
117	A New Approach for the Control and Reduction of Warpage and Residual Stresses in Bonded Wafer. Micromachines, 2021, 12, 361.	1.4	8
118	Analysis of ductile fracture in damaged pipelines by a geometric parameter method. Engineering Structures, 1999, 21, 924-936.	2.6	7
119	Coupled domain decompositionâ€™proper orthogonal decomposition methods for the simulation of quasi-brittle fracture processes. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .	0.7	7
120	Air-Coupled Array of PmutS at 100 kHz with PZT Active Layer: Multiphysics Model and Experiments. , 2019, , .		7
121	Air-coupled PMUTs array with residual stresses: experimental tests in the linear and non-linear dynamic regime. International Journal of Smart and Nano Materials, 2020, 11, 387-399.	2.0	7
122	On-chip tensile test for epitaxial polysilicon. , 0, , .		6
123	Recent Advances in Computational Methods for Microsystems. Advanced Materials Research, 2013, 745, 13-25.	0.3	6
124	Microsystems and Mechanics. Procedia IUTAM, 2014, 10, 138-160.	1.2	6
125	Modelling and characterization of circular microplate electrostatic actuators for micropump applications. , 2015, , .		6
126	Top-down, multi-scale numerical simulation of MEMS microphones under guided free fall tests. Microelectronics Reliability, 2021, 121, 114129.	0.9	6

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127	Model order reduction for the analysis of large arrays of piezoelectric micromachined ultrasonic transducers in water. Applied Acoustics, 2021, 182, 108231.	1.7	6
128	From mechanics to acoustics: Critical assessment of a robust metamaterial for acoustic insulation application. Applied Acoustics, 2021, 183, 108311.	1.7	6
129	Rupture Tests on Polysilicon Films Through on-Chip Electrostatic Actuation. Sensor Letters, 2006, 4, 38-45.	0.4	6
130	Efficient Modeling and Simulation of PMUT Arrays in Various Ambients. Micromachines, 2022, 13, 962.	1.4	6
131	Numerical analysis of discretized elastoplastic systems using the generalized midpoint time integration. Engineering Computations, 1994, 11, 389-411.	0.7	5
132	On the analysis of spontaneous adhesion in MEMS. , 2009, , .		5
133	Finite Element modelling of adhesion phenomena in MEMS. , 2010, , .		5
134	Modelling of a bridge-shaped nonlinear piezoelectric energy harvester. Journal of Physics: Conference Series, 2013, 476, 012100.	0.3	5
135	Modelling and experimental verification of a single phase three-dimensional lightweight locally resonant elastic metamaterial with complete low frequency bandgap. , 2017, , .		5
136	The First Frequency-Modulated (FM) Pitch Gyroscope. Proceedings (mdpi), 2017, 1, 393.	0.2	5
137	Multi-Scale Modeling of Shock-Induced Failure of Polysilicon MEMS. , 2007, , .		4
138	A polysilicon test structure for fatigue and fracture testing in micro electro mechanical devices. , 2008, , .		4
139	An experimental assessment of Casimir force effect in micro-electromechanical systems. , 2008, , .		4
140	Design issues in electrostatic microplate actuators: Device stability and post pull-in behaviour. , 2011, , .		4
141	Optimal design and nonlinearities in a z-axis resonant accelerometer. , 2015, , .		4
142	Torsional Microresonator in the Nonlinear Regime: Experimental, Numerical and Analytical Characterization. Procedia Engineering, 2016, 168, 933-936.	1.2	4
143	Optimization of auxetic structures for MEMS applications. , 2016, , .		4
144	A 3D Printed Ti6Al4V Alloy Uniaxial Capacitive Accelerometer. IEEE Sensors Journal, 2021, 21, 19640-19646.	2.4	4

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145	Out of Plane Flexural Behaviour of Thin Polysilicon Films: Mechanical Characterization and Application of the Weibull Approach. <i>Sensor Letters</i> , 2006, 4, 184-190.	0.4	4
146	A Metaplate in MEMS for innovative applications: vibration isolation and tunable mechanical filters. , 2020, , .		4
147	Microstructured Phononic Crystal Isolates from Ultrasonic Mechanical Vibrations. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2499.	1.3	4
148	Study of the mechanical behaviour of a macroscopic glassâ€“polyester composite by ESPI method and numerical simulations. <i>Composites Science and Technology</i> , 2004, 64, 1829-1841.	3.8	3
149	Simulation of Impact Rupture in Polysilicon Mems. , 0, , .		3
150	Structural Integrity Assessment of a Pipeline Subjected to an Underwater Explosion. , 2011, , .		3
151	A multi-scale approach to wafer to wafer metallic bonding in MEMS. , 2013, , .		3
152	Optimal design of a resonating MEMS magnetometer: A multi-physics approach. , 2013, , .		3
153	Numerical simulations of piezoelectric MEMS energy harvesters. , 2014, , .		3
154	An efficient earth magnetic field MEMS sensor: Modelling and experimental results. , 2014, , .		3
155	On the dynamics of a high frequency oscillator for mechanical watches. <i>Mechanism and Machine Theory</i> , 2017, 117, 276-293.	2.7	3
156	3D-printing and wet metallization for uniaxial and multi-axial accelerometers. , 2018, , .		3
157	Wide low frequency bandgap in imperfect 3D modular structures based on modes separation. <i>Mechanics Research Communications</i> , 2020, 105, 103512.	1.0	3
158	Micro-Scale Simulation of Impact Rupture in Polysilicon MEMS. , 2006, , 647-648.		3
159	Mechanical Characterization of Low-Dimensional Structures Through On-Chip Tests. , 2008, , 349-383.		3
160	CONSTITUTIVE MODELLING OF COMPOSITES AND LAMINATES VIA HOMOGENISATION AND PARAMETER IDENTIFICATION. , 2000, , 449-457.		3
161	Reduced Order Modeling of Composite Laminates Through Solid-Shell Coupling. <i>Journal of Aerospace Technology and Management</i> , 2017, 9, 397-403.	0.3	3
162	Mechanical characterization of epitaxial polysilicon in MEMS. , 2003, , 722-726.		3

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163	A multiscale-stochastic finite element approach to shock-induced polysilicon MEMS failure. , 2009, , .		2
164	A domain decomposition method for the simulation of fracture in polysilicon MEMS. Microelectronics Reliability, 2013, 53, 1045-1054.	0.9	2
165	Design, Fabrication and Testing of the First 3D-Printed and Wet Metallized z-Axis Accelerometer. Proceedings (mdpi), 2017, 1, .	0.2	2
166	Experimental-Numerical Assessment of Impact-Induced Damage in Cross-Ply Laminates. Advanced Structured Materials, 2010, , 493-504.	0.3	2
167	Numerical Simulation of Impact-Induced Rupture in Polysilicon MEMS. Sensor Letters, 2008, 6, 35-42.	0.4	2
168	Mechanics of Microsystems: A Recent Journey in a Fascinating Branch of Mechanics. , 2022, , 419-435.		2
169	Rupture tests on polysilicon films through on-chip electrostatic actuation [MEMS applications]. , 0, , .		1
170	Out of plane flexural behaviour of thin polysilicon films: mechanical characterization and application of the weibull approach. , 0, , .		1
171	Parametric Study of Fracture Properties in Polycrystalline MEMS. , 2007, , .		1
172	Intrinsic dissipation in microelectromechanical systems. , 2008, , .		1
173	Real-time monitoring of the fatigue damage accumulation in polysilicon microstructures at different applied stresses. , 2009, , .		1
174	Two-scale vs three-scale FE analyses of shock-induced failure in polysilicon MEMS. , 2010, , .		1
175	An on-chip experimental assessment Of Casimir force effect in micro-electromechanical systems. , 2010, , .		1
176	On the nonlinear behaviour of MEMS resonators. , 2011, , .		1
177	A kinetic model for capillary flows in MEMS. , 2012, , .		1
178	Experimental and numerical assessment of adhesion in real-life MEMS. , 2012, , .		1
179	A domain decomposition method for the simulation of fracture in polysilicon MEMS. , 2012, , .		1
180	Micro- or nano-mechanics. Meccanica, 2013, 48, 1817-1818.	1.2	1

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181	Integrated structure for a resonant micro-gyroscope and accelerometer. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 334-342.	0.5	1
182	Experimental verification of a bridge-shaped, non-linear vibration energy harvesters. , 2014, , .		1
183	A highly efficient simulation technique for piezoelectric energy harvesters. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012141.	0.3	1
184	High speed vision system for the dynamic characterization of 3D printed sensors. <i>Journal of Physics: Conference Series</i> , 2019, 1249, 012001.	0.3	1
185	Towards 3-Axis FM Mems Gyroscopes: Mechanical Design and Experimental Validation. , 2019, , .		1
186	Convergence of the Newton-Raphson Method in Elastic-Plastic-Softening Structural Dynamics. , 1991, , 258-265.		1
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