Alberto Corigliano

List of Publications by Year
in descending order

203	4,948	101543	118850
papers	citations	36 h-index	62 g-index

223	223	223	2897
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wearable Ball-Impact Piezoelectric Multi-Converters for Low-Frequency Energy Harvesting from Human Motion. Sensors, 2022, 22, 772.	3.8	16
2	Microstructured Phononic Crystal Isolates from Ultrasonic Mechanical Vibrations. Applied Sciences (Switzerland), 2022, 12, 2499.	2.5	4
3	Numerical and experimental evaluation of the magnetic interaction for frequency up-conversion in piezoelectric vibration energy harvesters. Meccanica, 2022, 57, 1139-1154.	2.0	13
4	SHM under varying environmental conditions: an approach based on model order reduction and deep learning. Computers and Structures, 2022, 266, 106790.	4.4	21
5	Linear and Nonlinear Mechanics in MEMS. , 2022, , 389-437.		1
6	Mechanics of Microsystems: A Recent Journey in a Fascinating Branch of Mechanics. , 2022, , 419-435.		2
7	Efficient Modeling and Simulation of PMUT Arrays in Various Ambients. Micromachines, 2022, 13, 962.	2.9	6
8	The role of anchor imposed motion in the failure of MEMS microphones under free fall tests. Microelectronics Reliability, 2022, 135, 114584.	1.7	1
9	A New Approach for the Control and Reduction of Warpage and Residual Stresses in Bonded Wafer. Micromachines, 2021, 12, 361.	2.9	8
10	Failure of MEMS Microphones During Impact Tests: the Role of Anchor Imposed Motion. , 2021, , .		0
11	Top-down, multi-scale numerical simulation of MEMS microphones under guided free fall tests. Microelectronics Reliability, 2021, 121, 114129.	1.7	6
12	An Autoencoder-Based Deep Learning Approach for Load Identification in Structural Dynamics. Sensors, 2021, 21, 4207.	3.8	12
13	Selective Mode Conversion and Rainbow Trapping via Graded Elastic Waveguides. Physical Review Applied, 2021, 16, .	3.8	37
14	A 3D Printed Ti6Al4V Alloy Uniaxial Capacitive Accelerometer. IEEE Sensors Journal, 2021, 21, 19640-19646.	4.7	4
15	Online structural health monitoring by model order reduction and deep learning algorithms. Computers and Structures, 2021, 255, 106604.	4.4	29
16	Model order reduction for the analysis of large arrays of piezoelectric micromachined ultrasonic transducers in water. Applied Acoustics, 2021, 182, 108231.	3.3	6
17	From mechanics to acoustics: Critical assessment of a robust metamaterial for acoustic insulation application. Applied Acoustics, 2021, 183, 108311.	3.3	6
18	Enhanced Energy Harvesting of Flexural Waves in Elastic Beams by Bending Mode of Graded Resonators. Frontiers in Materials, 2021, 8, .	2.4	13

#	Article	IF	Citations
19	A Generative Adversarial Network Based Autoencoder for Structural Health Monitoring. , 2021, 2, .		0
20	Unscented Kalman Filter Empowered by Bayesian Model Evidence for System Identification in Structural Dynamics. , 2021, 2, .		1
21	An investigation on the magnetic interaction for frequency up-converting piezoelectric vibration energy harvesters. , 2021, , .		1
22	Non-linear mechanics in resonant inertial micro sensors. International Journal of Non-Linear Mechanics, 2020, 120, 103386.	2.6	19
23	Graded elastic metasurface for enhanced energy harvesting. New Journal of Physics, 2020, 22, 013013.	2.9	92
24	Piezo-micro-ultrasound-transducers for air-coupled arrays: Modeling and experiments in the linear and non-linear regimes. Extreme Mechanics Letters, 2020, 40, 100968.	4.1	9
25	Experimental investigation of amplification, via a mechanical delay-line, in a rainbow-based metamaterial for energy harvesting. Applied Physics Letters, 2020, 117, .	3.3	51
26	A design strategy to match the band gap of periodic and aperiodic metamaterials. Scientific Reports, 2020, 10, 16403.	3.3	27
27	Design, Fabrication and Experimental Validation of a Metaplate for Vibration Isolation in MEMS. Journal of Microelectromechanical Systems, 2020, 29, 1401-1410.	2.5	17
28	Numerical Analysis of Impact Induced Failure for MEMS Membranes during Guided Free Fall Tests. , 2020, , .		0
29	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.	4.2	7
30	A metaplate for complete 3D vibration isolation. European Journal of Mechanics, A/Solids, 2020, 84, 104016.	3.7	24
31	On the Effects of Package on the PMUTs Performancesâ€”Multiphysics Model and Frequency Analyses. Micromachines, 2020, 11, 307.	2.9	9
32	Wide low frequency bandgap in imperfect 3D modular structures based on modes separation. Mechanics Research Communications, 2020, 105, 103512.	1.8	3
33	Fully convolutional networks for structural health monitoring through multivariate time series classification. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	30
34	A Metaplate in MEMS for innovative applications: vibration isolation and tunable mechanical filters. , 2020, , .		4
35	The First 3D-Printed and Wet-Metallized Three-Axis Accelerometer With Differential Capacitive Sensing. IEEE Sensors Journal, 2019, 19, 9131-9138.	4.7	30
36	Experimental and numerical evidence of comparable levels of attenuation in periodic and a-periodic metastructures. Applied Physics Letters, 2019, 115, .	3.3	11

#	Article	IF	Citations
37	Modelling and Simulation of Glass Frit Bonding of Silicon Wafers. , 2019, , .		0
38	Air-Coupled Array of Pmuts at 100 kHz with PZT Active Layer: Multiphysics Model and Experiments. , 2019, , .		7
39	Design, fabrication and experimental validation of a MEMS periodic auxetic structure. Smart Materials and Structures, 2019, 28, 095011.	3.5	13
40	Low frequency 3D ultra-wide vibration attenuation via elastic metamaterial. Scientific Reports, 2019, 9, 8039.	3.3	59
41	High speed vision system for the dynamic characterization of 3D printed sensors. Journal of Physics: Conference Series, 2019, 1249, 012001.	0.4	1
42	Towards 3-Axis FM Mems Gyroscopes: Mechanical Design and Experimental Validation. , 2019, , .		1
43	Optimal 2D auxetic micro-structures with band gap. Meccanica, 2019, 54, 2001-2027.	2.0	27
44	3-D Design and Simulation of a Piezoelectric Micropump. Micromachines, 2019, 10, 259.	2.9	24
45	A new MEMS three-axial frequency-modulated (FM) gyroscope: a mechanical perspective. European Journal of Mechanics, A/Solids, 2018, 70, 203-212.	3.7	22
46	The First 3-D-Printed *z*-Axis Accelerometers With Differential Capacitive Sensing. IEEE Sensors Journal, 2018, 18, 53-60.	4.7	28
47	3D auxetic single material periodic structure with ultra-wide tunable bandgap. Scientific Reports, 2018, 8, 2262.	3.3	96
48	Design of piezoMEMS for high strain rate nanomechanical experiments. Extreme Mechanics Letters, 2018, 20, 14-20.	4.1	13
49	Multiphysics modelling and experimental validation of an air-coupled array of PMUTs with residual stresses. Journal of Micromechanics and Microengineering, 2018, 28, 054005.	2.6	18
50	Nonlinear dynamics under varying temperature conditions of the resonating beams of a differential resonant accelerometer. Journal of Micromechanics and Microengineering, 2018, 28, 075004.	2.6	12
51	3D-printing and wet metallization for uniaxial and multi-axial accelerometers. , 2018, , .		3
52	Air-coupled PMUT at 100 kHz with PZT active layer and residual stresses: Multiphysics model and experimental validation. , 2017, , .		11
53	On the dynamics of a high frequency oscillator for mechanical watches. Mechanism and Machine Theory, 2017, 117, 276-293.	4.5	3
54	Mechanical low-frequency filter via modes separation in 3D periodic structures. Applied Physics Letters, 2017, 111, .	3.3	50

#	Article	IF	Citations
55	Synthesis of auxetic structures using optimization of compliant mechanisms and a micropolar material model. Structural and Multidisciplinary Optimization, 2017, 55, 1-12.	3.5	35
56	Modelling and experimental verification of a single phase three-dimensional lightweight locally resonant elastic metamaterial with complete low frequency bandgap. , 2017, , .		5
57	The First Frequency-Modulated (FM) Pitch Gyroscope. Proceedings (mdpi), 2017, 1, 393.	0.2	5
58	Design, Fabrication and Testing of the First 3D-Printed and Wet Metallized z-Axis Accelerometer. Proceedings (mdpi), 2017, 1, .	0.2	2
59	Reduced Order Modeling of Composite Laminates Through Solid-Shell Coupling. Journal of Aerospace Technology and Management, 2017, 9, 397-403.	0.3	3
60	Advanced Model for Fast Assessment of Piezoelectric Micro Energy Harvesters. Frontiers in Materials, 2016, 3, .	2.4	14
61	Sensitivity and temperature behavior of a novelz-axis differential resonant micro accelerometer. Journal of Micromechanics and Microengineering, 2016, 26, 035006.	2.6	23
62	Torsional Microresonator in the Nonlinear Regime: Experimental, Numerical and Analytical Characterization. Procedia Engineering, 2016, 168, 933-936.	1.2	4
63	Modeling and experimental verification of an ultra-wide bandgap in 3D phononic crystal. Applied Physics Letters, 2016, 109, .	3.3	107
64	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
65	Coupled domain decompositionâ€“proper orthogonal decomposition methods for the simulation of quasi-brittle fracture processes. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .	1.7	7
66	Non linear response and optimization of a new z-axis resonant micro-accelerometer. Mechatronics, 2016, 40, 235-243.	3.3	12
67	Evaluation of adhesion in microsystems using equivalent rough surfaces modeled with spherical caps. European Journal of Mechanics, A/Solids, 2016, 57, 121-131.	3.7	9
68	Optimization of auxetic structures for MEMS applications. , 2016, , .		4
69	A highly efficient simulation technique for piezoelectric energy harvesters. Journal of Physics: Conference Series, 2015, 660, 012141.	0.4	1
70	Model Order Reduction and domain decomposition strategies for the solution of the dynamic elasticâ€“plastic structural problem. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 127-155.	6.6	55
71	Numerical solution of the Duffing equation with random coefficients. Meccanica, 2015, 50, 1841-1853.	2.0	30
72	Improved one-dimensional model of piezoelectric laminates for energy harvesters including three dimensional effects. Composite Structures, 2015, 127, 369-381.	5.8	32

#	Article	IF	Citations
73	Optimal design and nonlinearities in a z-axis resonant accelerometer. , 2015, , .		4
74	Self-induced parametric amplification arising from nonlinear elastic coupling in a micromechanical resonating disk gyroscope. Scientific Reports, 2015, 5, 9036.	3.3	91
75	Predicting the closed-loop stability and oscillation amplitude of nonlinear parametrically amplified oscillators. Applied Physics Letters, 2015, 106, .	3.3	17
76	Modelling and characterization of circular microplate electrostatic actuators for micropump applications. , 2015, , .		6
77	An Efficient Earth Magnetic Field MEMS Sensor: Modeling, Experimental Results, and Optimization. Journal of Microelectromechanical Systems, 2015, 24, 887-895.	2.5	18
78	Dynamic nonlinear behavior of torsional resonators in MEMS. Journal of Micromechanics and Microengineering, 2014, 24, 095025.	2.6	26
79	Integrated structure for a resonant micro-gyroscope and accelerometer. Frattura Ed Integrita Strutturale, 2014, 8, 334-342.	0.9	1
80	Experimental verification of a bridge-shaped, non-linear vibration energy harvesters. , 2014, , .		1
81	Geometry optimization of a Lorentz force, resonating MEMS magnetometer. Microelectronics Reliability, 2014, 54, 1192-1199.	1.7	18
82	Experimental verification of a bridge-shaped, nonlinear vibration energy harvester. Applied Physics Letters, 2014, 105, .	3.3	51
83	A three-scale approach to the numerical simulation of metallic bonding for MEMS packaging. Microelectronics Reliability, 2014, 54, 2039-2043.	1.7	0
84	Thermo-electrical and structural coupled simulations of buckling beam microprobes in high temperature/high current conditions. , 2014, , .		0
85	Numerical simulations of piezoelectric MEMS energy harvesters. , 2014, , .		3
86	An efficient earth magnetic field MEMS sensor: Modelling and experimental results. , 2014, , .		3
87	A domain decomposition approach for the simulation of fracture phenomena in polycrystalline microsystems. Computer Methods in Applied Mechanics and Engineering, 2014, 277, 180-218.	6.6	11
88	Microsystems and Mechanics. Procedia IUTAM, 2014, 10, 138-160.	1.2	6
89	Advanced models for the calculation of capillary attraction in axisymmetric configurations. European Journal of Mechanics, A/Solids, 2014, 47, 298-308.	3.7	18
90	A Differential Resonant Micro Accelerometer for Out-of-plane Measurements. Procedia Engineering, 2014, 87, 640-643.	1.2	17

#	Article	IF	Citations
91	Modeling of a Bridge-Shaped Nonlinear Piezoelectric Energy Harvester. Energy Harvesting and Systems, 2014, 1, .	2.7	8
92	A domain decomposition technique applied to the solution of the coupled electroâ€mechanical problem. International Journal for Numerical Methods in Engineering, 2013, 93, 137-159.	2.8	12
93	Micro- or nano-mechanics. Meccanica, 2013, 48, 1817-1818.	2.0	1
94	Experimental evaluation and numerical modeling of adhesion phenomena in polysilicon MEMS. Meccanica, 2013, 48, 1835-1844.	2.0	56
95	A resonant micro accelerometer based on electrostatic stiffness variation. Meccanica, 2013, 48, 1893-1900.	2.0	32
96	A domain decomposition method for the simulation of fracture in polysilicon MEMS. Microelectronics Reliability, 2013, 53, 1045-1054.	1.7	2
97	Domain decomposition and model order reduction methods applied to the simulation of multi-physics problems in MEMS. Computers and Structures, 2013, 122, 113-127.	4.4	27
98	Compact biaxial micromachined resonant accelerometer. Journal of Micromechanics and Microengineering, 2013, 23, 105012.	2.6	33
99	A multi-scale approach to wafer to wafer metallic bonding in MEMS. , 2013, , .		3
100	Optimal design of a resonating MEMS magnetometer: A multi-physics approach. , 2013, , .		3
101	Modelling of spontaneous adhesion phenomena in micro-electro-mechanical systems. European Journal of Mechanics, A/Solids, 2013, 39, 144-152.	3.7	31
102	MEMS-based surface mounted health monitoring system for composite laminates. Microelectronics Journal, 2013, 44, 598-605.	2.0	23
103	On the application of piezolaminated composites to diaphragm micropumps. Composite Structures, 2013, 99, 231-240.	5.8	25
104	Recent Advances in Computational Methods for Microsystems. Advanced Materials Research, 2013, 745, 13-25.	0.3	6
105	Modelling of a bridge-shaped nonlinear piezoelectric energy harvester. Journal of Physics: Conference Series, 2013, 476, 012100.	0.4	5
106	Physically-Based Reduced Order Modelling of a Uni-Axial Polysilicon MEMS Accelerometer. Sensors, 2012, 12, 13985-14003.	3.8	14
107	A kinetic model for capillary flows in MEMS. , 2012, , .		1
108	Experimental and numerical assessment of adhesion in real-life MEMS. , 2012, , .		1

#	Article	IF	Citations
109	A domain decomposition method for the simulation of fracture in polysilicon MEMS. , 2012, , .		1
110	Sensitivity, probabilistic and stochastic analysis of the thermo-piezoelectric phenomena in solids by the stochastic perturbation technique. Meccanica, 2012, 47, 877-891.	2.0	12
111	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.	1.7	15
112	Enhancing the Linear Range of MEMS Resonators for Sensing Applications. IEEE Sensors Journal, 2011, 11, 3202-3210.	4.7	17
113	On the nonlinear behaviour of MEMS resonators. , 2011, , .		1
114	A new biaxial silicon resonant micro accelerometer. , 2011, , .		14
115	Overall elastic domain of thin polysilicon films. Computational Materials Science, 2011, 50, 2993-3004.	3.0	17
116	OVERALL ELASTIC PROPERTIES OF POLYSILICON FILMS: A STATISTICAL INVESTIGATION OF THE EFFECTS OF POLYCRYSTAL MORPHOLOGY. International Journal for Multiscale Computational Engineering, 2011, 9, 327-346.	1.2	34
117	Monte carlo simulation of micro-cracking in polysilicon MEMS exposed to shocks. International Journal of Fracture, 2011, 167, 83-101.	2.2	38
118	Design of high stroke electrostatic micropumps: a charge control approach with ring electrodes. Microsystem Technologies, 2011, 17, 165-173.	2.0	12
119	A microsystem for the fracture characterization of polysilicon at the micro-scale. European Journal of Mechanics, A/Solids, 2011, 30, 127-136.	3.7	21
120	Design issues in electrostatic microplate actuators: Device stability and post pull-in behaviour. , 2011, , .		4
121	Structural Integrity Assessment of a Pipeline Subjected to an Underwater Explosion. , 2011, , .		3
122	A PLATE MODEL FOR THE EVALUATION OF PULL-IN INSTABILITY OCCURRENCE IN ELECTROSTATIC MICROPUMP DIAPHRAGMS. International Journal of Applied Mechanics, 2011, 03, 1-19.	2.2	20
123	Two-Scale Simulation of Drop-Induced Failure of Polysilicon MEMS Sensors. Sensors, 2011, 11, 4972-4989.	3.8	29
124	Two-scale vs three-scale FE analyses of shock-induced failure in polysilicon MEMS. , 2010, , .		1
125	Multiscale finite-element models for predicting spontaneous adhesion in MEMS. Mecanique Et Industries, 2010, 11, 177-182.	0.2	11
126	On-Chip Mechanical Characterization using an Electro-thermo-mechanical Actuator. Experimental Mechanics, 2010, 50, 695-707.	2.0	17

#	Article	IF	Citations
127	A Resonant Microaccelerometer With High Sensitivity Operating in an Oscillating Circuit. Journal of Microelectromechanical Systems, 2010, 19, 1140-1152.	2.5	139
128	A high sensitivity uniaxial resonant accelerometer. , 2010, , .		22
129	An on-chip experimental assessment Of Casimir force effect in micro-electromechanical systems. , 2010, , .		1
130	Finite Element modelling of adhesion phenomena in MEMS. , 2010, , .		5
131	Experimental-Numerical Assessment of Impact-Induced Damage in Cross-Ply Laminates. Advanced Structured Materials, 2010, , 493-504.	0.5	2
132	Real-time monitoring of the fatigue damage accumulation in polysilicon microstructures at different applied stresses. , 2009, , .		1
133	A new two-beam differential resonant micro accelerometer. , 2009, , .		9
134	Modeling Impact-induced Failure of Polysilicon MEMS: A Multi-scale Approach. Sensors, 2009, 9, 556-567.	3.8	47
135	A new on-chip test structure for real time fatigue analysis in polysilicon MEMS. Microelectronics Reliability, 2009, 49, 120-126.	1.7	26
136	Polysilicon MEMS accelerometers exposed to shocks: numericalâ€“experimental investigation. Journal of Micromechanics and Microengineering, 2009, 19, 035023.	2.6	39
137	A multiscale-stochastic finite element approach to shock-induced polysilicon MEMS failure. , 2009, , .		2
138	On the numerical evaluation of capacitance and electrostatic forces in MEMS. , 2009, , .		8
139	On the analysis of spontaneous adhesion in MEMS. , 2009, , .		5
140	Solid damping in micro electro mechanical systems. Meccanica, 2008, 43, 419-428.	2.0	88
141	A three-scale FE approach to reliability analysis of MEMS sensors subjectÂtoÂimpacts. Meccanica, 2008, 43, 469-483.	2.0	40
142	Numerical modelling of impact rupture in polysilicon microsystems. Computational Mechanics, 2008, 42, 251-259.	4.0	27
143	Numerical-experimental comparison of low-g and high-g tests on a polysilicon MEMS accelerometer. , 2008, , .		0
144	Intrinsic dissipation in microelectromechanical systems. , 2008, , .		1

#	Article	IF	Citations
145	A polysilicon test structure for fatigue and fracture testing in micro electro mechanical devices. , 2008, , .		4
146	An experimental assessment of Casimir force effect in micro-electromechanical systems. , 2008, , .		4
147	Mechanical Characterization of Polysilicon at the Micro-Scale Through On-Chip Tests. Computational and Experimental Methods in Structures, 2008, , 427-454.	0.3	0
148	Mechanical Characterization of Low-Dimensional Structures Through On-Chip Tests. , 2008, , 349-383.		3
149	Numerical Simulation of Impact-Induced Rupture in Polysilicon MEMS. Sensor Letters, 2008, 6, 35-42.	0.4	2
150	Parametric Study of Fracture Properties in Polycrystalline MEMS. , 2007, , .		1
151	Multi-Scale Modeling of Shock-Induced Failure of Polysilicon MEMS. , 2007, , .		4
152	Multi-scale Analysis of MEMS Sensors Subject to Drop Impacts. Sensors, 2007, 7, 1817-1833.	3.8	63
153	Electro-Thermal Actuator for On-Chip Nanoscale Tensile Tests: Analytical Modelling and Multi-Physics Simulations. Sensor Letters, 2007, 5, 592-607.	0.4	11
154	A thermal actuator for nanoscalein situmicroscopy testing: design and characterization. Journal of Micromechanics and Microengineering, 2006, 16, 242-253.	2.6	262
155	Numerical analysis of rate-dependent dynamic composite delamination. Composites Science and Technology, 2006, 66, 766-775.	7.8	45
156	Modelling of interlaminar fracture processes in composites using interface elements. Composites Science and Technology, 2006, 66, 255-263.	7.8	14
157	Micro-Scale Simulation of Impact Rupture in Polysilicon MEMS. , 2006, , 647-648.		3
158	Rupture Tests on Polysilicon Films Through on-Chip Electrostatic Actuation. Sensor Letters, 2006, 4, 38-45.	0.4	6
159	Out of Plane Flexural Behaviour of Thin Polysilicon Films: Mechanical Characterization and Application of the Weibull Approach. Sensor Letters, 2006, 4, 184-190.	0.4	4
160	Impact Induced Composite Delamination: State and Parameter Identification via Unscented Kalman Filter. , 2006, , 1251-1252.		0
161	Impact induced composite delamination: state and parameter identification via joint and dual extended Kalman filters. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 5242-5272.	6.6	67
162	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.	1.7	17

#	Article	IF	Citations
163	On-Chip Electrostatically Actuated Bending Tests for the Mechanical Characterization of Polysilicon at the Micro Scale. Meccanica, 2005, 40, 485-503.	2.0	22
164	Mechanical Characterization of Polysilicon Through On-Chip Tensile Tests. Journal of Microelectromechanical Systems, 2004, 13, 200-219.	2.5	119
165	Parameter identification in explicit structural dynamics: performance of the extended Kalman filter. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3807-3835.	6.6	139
166	Study of the mechanical behaviour of a macroscopic glassâ€“polyester composite by ESPI method and numerical simulations. Composites Science and Technology, 2004, 64, 1829-1841.	7.8	3
167	Numerical modeling of rate-dependent debonding processes in composites. Composite Structures, 2003, 61, 39-50.	5.8	45
168	Damage and Fracture Mechanics Techniques for Composite Structures. , 2003, , 459-539.		9
169	Mechanical characterization of epitaxial polysilicon in MEMS. , 2003, , 722-726.		3
170	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.	6.6	14
171	Elasto-Plastic Interface Law for Non-Homogeneous Materials: Formulation, Sensitivity Analysis, Parameter Identification. Solid Mechanics and Its Applications, 2002, , 233-242.	0.2	1
172	Parameter identification of a time-dependent elastic-damage interface model for the simulation of debonding in composites. Composites Science and Technology, 2001, 61, 191-203.	7.8	40
173	Simulation of damage in composites by means of interface models: parameter identification. Composites Science and Technology, 2001, 61, 2299-2315.	7.8	35
174	Rate-dependent interface models: formulation and numerical applications. International Journal of Solids and Structures, 2001, 38, 547-576.	2.7	85
175	Anisotropic behaviour of porous, ductile media. International Journal of Solids and Structures, 2001, 38, 2427-2451.	2.7	12
176	Mechanical behaviour of a syntactic foam/glass fibre composite sandwich: experimental results. Structural Engineering and Mechanics, 2001, 12, 169-188.	1.0	27
177	Finite elements with embedded displacement discontinuity: a generalized variable formulation. International Journal for Numerical Methods in Engineering, 2000, 49, 1227-1266.	2.8	29
178	Mechanical behavior of a syntactic foam: experiments and modeling. International Journal of Solids and Structures, 2000, 37, 5773-5794.	2.7	139
179	Some aspects of interlaminar degradation in composites. Computer Methods in Applied Mechanics and Engineering, 2000, 185, 203-224.	6.6	56
180	Experimental characterization and numerical simulations of a syntactic-foam/glass-fibre composite sandwich. Composites Science and Technology, 2000, 60, 2169-2180.	7.8	107

#	Article	IF	Citations
181	Title is missing!. International Journal of Fracture, 2000, 104, 349-373.	2.2	40
182	CONSTITUTIVE MODELLING OF COMPOSITES AND LAMINATES VIA HOMOGENISATION AND PARAMETER IDENTIFICATION. , 2000, , 449-457.		3
183	Analysis of ductile fracture in damaged pipelines by a geometric parameter method. Engineering Structures, 1999, 21, 924-936.	5.3	7
184	Geometrical and interfacial non-linearities in the analysis of delamination in composites. International Journal of Solids and Structures, 1999, 36, 2189-2216.	2.7	94
185	A discrete formulation for elastic solids with damaging interfaces. Computer Methods in Applied Mechanics and Engineering, 1997, 140, 329-359.	6.6	45
186	On uniqueness of the dynamic finite-step problem in gradient-dependent softening plasticity. International Journal of Solids and Structures, 1996, 33, 3881-3902.	2.7	13
187	Modeling and simulation of crack propagation in mixed-modes interlaminar fracture specimens. International Journal of Fracture, 1996, 77, 111-140.	2.2	146
188	Damage analysis of interlaminar fracture specimens. Composite Structures, 1995, 31, 61-74.	5.8	244
189	Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws. International Journal of Solids and Structures, 1995, 32, 3145-3166.	2.7	53
190	Numerical analysis of discretized elastoplastic systems using the generalized midâ€point time integration. Engineering Computations, 1994, 11, 389-411.	1.4	5
191	Generalized midpoint finite element dynamic analysis of elastoplastic systems. International Journal for Numerical Methods in Engineering, 1993, 36, 361-383.	2.8	10
192	Formulation, identification and use of interface models in the numerical analysis of composite delamination. International Journal of Solids and Structures, 1993, 30, 2779-2811.	2.7	171
193	Dynamic Analysis of Elastoplastic Softening Discretized Structures. Journal of Engineering Mechanics - ASCE, 1992, 118, 2352-2375.	2.9	12
194	Dynamic shakedown in elastoplastic structures with general internal variable constitutive laws. International Journal of Plasticity, 1991, 7, 679-692.	8.8	29
195	Extremum properties of finite-step solutions in elastoplasticity with nonlinear mixed hardening. International Journal of Solids and Structures, 1991, 27, 965-981.	2.7	42
196	Convergence of the Newton-Raphson Method in Elastic-Plastic-Softening Structural Dynamics. , 1991, , 258-265.		1
197	On-chip tensile test for epitaxial polysilicon. , 0, , .		6
198	Rupture tests on polysilicon films through on-chip electrostatic actuation [MEMS applications]. , 0, , .		1

#	Article	IF	Citations
199	On the evaluation of damping forces in MEMS. , 0, , .		0
200	Out of plane flexural behaviour of thin polysilicon films: mechanical characterization and application of the weibull approach. , 0, , .		1
201	Simulation of Impact Rupture in Polysilicon Mems. , 0, , .		3
202	A Time Series Autoencoder for Load Identification via Dimensionality Reduction of Sensor Recordings. , 0, , .		0
203	Static and Dynamic Analyses of Actuation Devices in Electrostatic Micro-Pumps. , 0, , .		0