Claudio Maruccio

List of Publications by Year
in descending order

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23 papers	254 citations	1162889 8 h-index	940416 16 g-index
23 all docs	23 docs citations	23 times ranked	410 citing authors

#	Article	IF	Citations
1	Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires. Advanced Materials, 2014, 26, 7574-7580.	11.1	81
2	Energy harvesting from electrospun piezoelectric nanofibers for structural health monitoring of a cable-stayed bridge. Smart Materials and Structures, 2016, 25, 085040.	1.8	50
3	Computational homogenization of fibrous piezoelectric materials. Computational Mechanics, 2015, 55, 983-998.	2.2	22
4	Analysis of piezoelectric energy harvester under modulated and filtered white Gaussian noise. Mechanical Systems and Signal Processing, 2018, 104, 134-144.	4.4	19
5	Modelling and parameter identification of electromechanical systems for energy harvesting and sensing. Mechanical Systems and Signal Processing, 2019, 121, 890-912.	4.4	15
6	Numerical modelling and parametric analysis of bond strength of masonry members retrofitted with FRP. Construction and Building Materials, 2014, 73, 713-727.	3.2	10
7	Rolling particle lithography by soft polymer microparticles. Soft Matter, 2013, 9, 2206.	1.2	9
8	Excitation and time resolved spectroscopy of SAW harmonics up to GHz regime in photolithographed GaAs devices. Journal of Micromechanics and Microengineering, 2017, 27, 125002.	1.5	9
9	Nonlinear multi-scale dynamics modeling of piezoceramic energy harvesters with ferroelectric and ferroelastic hysteresis. Nonlinear Dynamics, 2020, 100, 1985-2003.	2.7	8
10	Feasibility of energy harvesting from vertical pedestrianâ€induced vibrations of footbridges for smart monitoring applications. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1044-1065.	6.3	8
11	Reduced-order modeling with multiple scales of electromechanical systems for energy harvesting. European Physical Journal: Special Topics, 2019, 228, 1605-1624.	1.2	5
12	Integration of CAD, CAE and CAM procedures for ceramic components undergoing sintering. Journal of the European Ceramic Society, 2016, 36, 2263-2275.	2.8	4
13	A Two-Step Hybrid Approach for Modeling the Nonlinear Dynamic Response of Piezoelectric Energy Harvesters. Shock and Vibration, 2018, 2018, 1-21.	0.3	4
14	Identification of Piezoelectric Energy Harvester Parameters Using Adaptive Models. , 2018, , .		3
15	Nonlinear Analysis of Masonry Buildings Under Seismic Actions with a Multifan Finite Element. International Journal of Structural Stability and Dynamics, 2016, 16, 1640008.	1.5	2
16	Nonlinear Physics-based Modeling of a Piezoelectric Energy Harvester. IFAC-PapersOnLine, 2018, 51, 707-712.	0.5	2
17	Numerical homogenization of piezoelectric textiles with electrospun fibers for energy harvesting. Frattura Ed Integrita Strutturale, 2014, 8, 49-60.	0.5	1
18	Nonlinear Multi-Scale Dynamics Modeling of a Piezoelectric Energy Harvester. , 2018, , .		1

#	Article	IF	Citations
19	Frequency and time domain analysis of surface acoustic wave propagation on a piezoelectric gallium arsenide substrate: A computational insight. Journal of Intelligent Material Systems and Structures, 2019, 30, 801-812.	1.4	1
20	Polymer Nanowires: Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	11.1	0
21	Nonlinear Modelling of T-shaped Piezoelectric Device for Structural Health Monitoring and Fluid Energy Harvesting. , 2020, , .		0
22	Parameter identification strategy for online detection of faults in smart structures for energy harvesting and sensing. Procedia Structural Integrity, 2020, 28, 2104-2109.	0.3	0
23	Electromechanical contact elements for modelling adhesion and interfacial interactions in electrospun nanofibers systems. Procedia Structural Integrity, 2020, 28, 2142-2147.	0.3	0