Francesco Romeo

List of Publications by Year
in descending order

39 papers	1,038 citations	516710 16 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	603 citing authors

#	Article	IF	Citations
1	A WAVELET-BASED APPROACH FOR THE IDENTIFICATION OF LINEAR TIME-VARYING DYNAMICAL SYSTEMS. Journal of Sound and Vibration, 2000, 234, 555-576.	3.9	152
2	A wavelet-based approach for model and parameter identification of non-linear systems. International Journal of Non-Linear Mechanics, 2001, 36, 835-859.	2.6	97
3	Dynamics of a Linear Oscillator Coupled to a Bistable Light Attachment: Analytical Study. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	88
4	The tuned bistable nonlinear energy sink. Nonlinear Dynamics, 2017, 89, 179-196.	5.2	88
5	Dynamics of a Linear Oscillator Coupled to a Bistable Light Attachment: Numerical Study. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	66
6	INVARIANT REPRESENTATION OF PROPAGATION PROPERTIES FOR BI-COUPLED PERIODIC STRUCTURES. Journal of Sound and Vibration, 2002, 257, 869-886.	3.9	65
7	Dynamic interactions between parametric pendulum and electro-dynamical shaker. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 172-186.	1.6	60
8	Vibration energy harvesting from impulsive excitations via a bistable nonlinear attachment. International Journal of Non-Linear Mechanics, 2017, 94, 84-97.	2.6	49
9	Vibration reduction in piecewise bi-coupled periodic structures. Journal of Sound and Vibration, 2003, 268, 601-615.	3.9	48
10	Transient and chaotic low-energy transfers in a system with bistable nonlinearity. Chaos, 2015, 25, 053109.	2.5	47
11	Real wave vectors for dynamic analysis of periodic structures. Journal of Sound and Vibration, 2005, 279, 309-325.	3.9	37
12	Wave propagation properties in oscillatory chains with cubic nonlinearities via nonlinear map approach. Chaos, Solitons and Fractals, 2006, 27, 606-617.	5.1	31
13	Vibration energy harvesting from impulsive excitations via a bistable nonlinear attachment—Experimental study. Mechanical Systems and Signal Processing, 2019, 125, 185-201.	8.0	28
14	Integrated Procedure for Identification and Control of MDOF Structures. Journal of Engineering Mechanics - ASCE, 2000, 126, 730-737.	2.9	25
15	Periodic and localized solutions in chains of oscillators with softening or hardening cubic nonlinearity. Meccanica, 2015, 50, 721-730.	2.0	18
16	A Transfer-Matrix-Perturbation Approach to the Dynamics of Chains of Nonlinear Sliding Beams. Journal of Vibration and Acoustics, Transactions of the ASME, 2006, 128, 190-196.	1.6	17
17	Wave propagation in three-coupled periodic structures. Journal of Sound and Vibration, 2007, 301, 635-648.	3.9	14
18	Multistable cantilever shells: Analytical prediction, numerical simulation and experimental validation. Composites Science and Technology, 2018, 165, 397-410.	7.8	12

#	Article	IF	Citations
19	Nonlinear dynamics of bistable composite cantilever shells: An experimental and modelling study. Journal of Sound and Vibration, 2022, 526, 116779.	3.9	11
20	Non-stationary resonance dynamics of weakly coupled pendula. Europhysics Letters, 2015, 112, 30005.	2.0	10
21	Multi-physics dynamics of a mechanical oscillator coupled to an electro-magnetic circuit. International Journal of Non-Linear Mechanics, 2015, 70, 153-164.	2.6	10
22	Stationary and non-stationary oscillatory dynamics of the parametric pendulum. Communications in Nonlinear Science and Numerical Simulation, 2019, 76, 1-11.	3.3	9
23	PROPAGATION PROPERTIES OF BI-COUPLED NONLINEAR OSCILLATORY CHAINS: ANALYTICAL PREDICTION AND NUMERICAL VALIDATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1983-1998.	1.7	8
24	A pseudo-modal structural damage index based on orthogonal empirical mode decomposition. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 7545-7564.	2.1	7
25	Tracking modal interactions in nonlinear energy sink dynamics via high-dimensional invariant manifold. Nonlinear Dynamics, 2021, 103, 3187-3208.	5.2	7
26	JTruss: A CAD-oriented educational open-source software for static analysis of truss-type structures. Computer Applications in Engineering Education, 2008, 16, 280-288.	3.4	6
27	Damage Identification in a Parabolic Arch via Orthogonal Empirical Mode Decomposition. , 2014, , .		6
28	Multiphysics Chaotic Interaction in a Coupled Electro-Magneto-Mechanical System. , 2014, , .		4
29	Discrete Breathers in Forced Chains of Oscillators with Cubic Nonlinearities. Procedia IUTAM, 2016, 19, 236-243.	1.2	4
30	A discrete approach for a generalized Beck's column in parametric resonance. International Journal of Solids and Structures, 2009, 46, 3165-3172.	2.7	3
31	Dynamic regimes of a nonlinearly coupled electromechanical system. International Journal of Non-Linear Mechanics, 2018, 103, 68-81.	2.6	3
32	High order asymptotic dynamics of a nonlinearly coupled electromechanical system. Journal of Sound and Vibration, 2018, 432, 470-483.	3.9	3
33	Sensitivity Analysis and Improvement of a Pseudo-Modal Approach for Damage Localization. , 2015, , .		2
34	Parametric Resonance of Hopf Bifurcation in a Generalized Beck's Column. Journal of Computational and Nonlinear Dynamics, 2009, 4, .	1.2	1
35	Propagation Properties of Three-Coupled Periodic Mechanical Systems. , 2005, , .		1
36	Nonlinear Parametric Identification of Oscillating Cables Using Wavelets. , 2001, , .		0

#	Article	IF	Citations
37	Reduction of Arbitrary Dynamical Systems by Wavelet Bases. , 2001, , .		0
38	Map-based approaches for periodic structures. , 2012, , 161-256.		0
39	Propagation properties of bi-coupled nonlinear oscillatory chains. , 2006, , 465-465.		0