Giovanni Formica

List of Publications by Year
in descending order

41 papers	790 citations	566801 15 h-index	525886 27 g-index
42 all docs	42 docs citations	42 times ranked	620 citing authors

#	Article	IF	Citations
1	A Krylov accelerated Newton–Raphson scheme for efficient pseudo-arclength pathfollowing. International Journal of Non-Linear Mechanics, 2022, 145, 104116.	1.4	6
2	Pathfollowing of high-dimensional hysteretic systems under periodic forcing. Nonlinear Dynamics, 2021, 103, 3515-3528.	2.7	20
3	Three-part humeral head fractures treated with a definite construct of blocked threaded wires: finite element and parametric optimization analysis. JSES International, 2021, 5, 983-991.	0.7	3
4	Numerical simulation of particles flow in Laser Metal Deposition technology comparing Eulerian-Eulerian and Lagrangian-Eulerian approaches. Journal of Manufacturing Processes, 2021, 68, 186-197.	2.8	10
5	Kinship-based differential evolution algorithm for unconstrained numerical optimization. Nonlinear Dynamics, 2020, 99, 1341-1361.	2.7	3
6	Asymptotic dynamic modeling and response of hysteretic nanostructured beams. Nonlinear Dynamics, 2020, 99, 227-248.	2.7	11
7	Understanding COVID-19 nonlinear multi-scale dynamic spreading in Italy. Nonlinear Dynamics, 2020, 101, 1583-1619.	2.7	23
8	Optimal Design of CNT-Nanocomposite Nonlinear Shells. Nanomaterials, 2020, 10, 2484.	1.9	10
9	Nonlinear Dynamic Response of Nanocomposite Cantilever Beams. , 2020, , 49-57.		4
10	STORAGE AND DAMPING OPTIMIZATION IN HYSTERETIC MULTILAYER NANOCOMPOSITES. International Journal for Multiscale Computational Engineering, 2020, 18, 141-157.	0.8	2
11	A Numerical Strategy for Multistable Nanocomposite Shells. , 2020, , 59-67.		0
12	Parametric Identification of Carbon Nanotube Nanocomposites Constitutive Response. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	10
13	Geometric Constructive Traces in Drawings by Francesco Borromini. Advances in Intelligent Systems and Computing, 2019, , 208-218.	0.5	0
14	An Integrated CAD Strategy for Nonlinear Dynamics of 3D Suspended Bridges. Computer-Aided Design and Applications, 2019, 16, 1046-1062.	0.4	0
15	Hysteretic damping optimization in carbon nanotube nanocomposites. Composite Structures, 2018, 194, 633-642.	3.1	14
16	Hysteresis Identification of Carbon Nanotube Composite Beams. , 2018, , .		1
17	Computational efficiency and accuracy of sequential nonlinear cyclic analysis of carbon nanotube nanocomposites. Advances in Engineering Software, 2018, 125, 126-135.	1.8	3
18	Nonlinear Dynamic Response of Carbon Nanotube Nanocomposite Microbeams. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	9

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19	Three-dimensional modeling of interfacial stick-slip in carbon nanotube nanocomposites. International Journal of Plasticity, 2017, 88, 204-217.	4.1	20
20	Crack growth propagation using standard FEM. Engineering Fracture Mechanics, 2016, 165, 1-18.	2.0	17
21	The 'death pace' in the CO.17 trial. European Journal of Cancer, 2016, 53, 1-4.	1.3	1
22	A nonlinear mechanical model for the fatigue life of thin-film carbon nanotube supercapacitors. Composites Part B: Engineering, 2015, 80, 299-306.	5.9	7
23	Coupled hygro-mechanical multiscale analysis of masonry walls. Engineering Structures, 2015, 84, 266-278.	2.6	10
24	An improved theory of laminated Reissner–Mindlin plates. International Journal of Solids and Structures, 2014, 51, 1562-1575.	1.3	2
25	Nonlinear modeling of carbon nanotube composites dissipation due to interfacial stick–slip. International Journal of Plasticity, 2014, 53, 148-163.	4.1	33
26	A coupled multiphase model for hygrothermal analysis of masonry structures and prediction of stress induced by salt crystallization. Construction and Building Materials, 2013, 41, 717-731.	3.2	57
27	Damage model of carbon nanotubes debonding in nanocomposites. Composite Structures, 2013, 96, 514-525.	3.1	12
28	Coupling FEM With Parameter Continuation for Analysis of Bifurcations of Periodic Responses in Nonlinear Structures. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	0.7	31
29	Nonlinear Finite Element-Based Path Following of Periodic Solutions. , 2011, , .		12
30	In-plane Strain and Stress Fields in Theories of Shearable Laminated Plates Subject to Transverse Loads. Advanced Structured Materials, 2011, , 699-714.	0.3	1
31	Finite Element formulation for nonlinear analysis of masonry walls. Computers and Structures, 2010, 88, 135-143.	2.4	36
32	Performance of a high-continuity finite element in three-dimensional elasticity. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1155-1175.	1.0	53
33	Vibrations of carbon nanotube-reinforced composites. Journal of Sound and Vibration, 2010, 329, 1875-1889.	2.1	194
34	Multilevel approach for brick masonry walls – Part II: On the use of equivalent continua. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4801-4810.	3.4	23
35	Multilevel approach for brick masonry walls – Part I: A numerical strategy for the nonlinear analysis. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4934-4951.	3.4	40
36	Evaluating the volume of a hidden inclusion in an elastic body. Journal of Computational and Applied Mathematics, 2007, 198, 288-306.	1.1	24

#	ARTICLE	IF	CITATIONS
37	A Ï method-based numerical simulation of crack growth in linear elastic fracture. Engineering Fracture Mechanics, 2007, 74, 1727-1738.	2.0	3
38	A numerical analysis of infinitesimal mechanisms. International Journal for Numerical Methods in Engineering, 2005, 62, 979-1012.	1.5	12
39	Numerical size estimates of inclusions in elastic bodies. Inverse Problems, 2005, 21, 133-151.	1.0	28
40	A mixed solution strategy for the nonlinear analysis of brick masonry walls. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 5847-5876.	3.4	43
41	A coupled multiphase Lagrangian-Eulerian fluid-dynamics framework for numerical simulation of Laser Metal Deposition process. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	2