Andrea Caporale

List of Publications by Year
in descending order

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27 papers	859 citations	394421 19 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	527 citing authors

#	Article	IF	Citations
1	Micromechanical analysis of interfacial debonding in unidirectional fiber-reinforced composites. Computers and Structures, 2006, 84, 2200-2211.	4.4	77
2	A stress-driven local-nonlocal mixture model for Timoshenko nano-beams. Composites Part B: Engineering, 2019, 164, 590-598.	12.0	75
3	Strengthening of masonryâ€“unreinforced concrete railway bridges with PBO-FRCM materials. Composite Structures, 2013, 102, 193-204.	5.8	66
4	Numerical collapse load of multi-span masonry arch structures with FRP reinforcement. Composites Part B: Engineering, 2013, 54, 71-84.	12.0	57
5	Limit analysis of masonry arches with externally bonded FRP reinforcements. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 247-260.	6.6	55
6	Limit analysis of FRP strengthened masonry arches via nonlinear and linear programming. Composites Part B: Engineering, 2012, 43, 439-446.	12.0	53
7	Debonding of FRP in multi-span masonry arch structures via limit analysis. Composite Structures, 2014, 108, 856-865.	5.8	53
8	Limit analysis of masonry arches with finite compressive strength and externally bonded reinforcement. Composites Part B: Engineering, 2012, 43, 3131-3145.	12.0	52
9	Higher modes of buckling in shear deformable nanobeams. International Journal of Engineering Science, 2020, 154, 103338.	5.0	50
10	Comparative micromechanical assessment of adobe and clay brick masonry assemblages based on experimental data sets. Composite Structures, 2015, 120, 208-220.	5.8	38
11	Damage mechanics of cement concrete modeled as a four-phase composite. Composites Part B: Engineering, 2014, 65, 124-130.	12.0	33
12	Exact closed-form solutions for nonlocal beams with loading discontinuities. Mechanics of Advanced Materials and Structures, 2022, 29, 694-704.	2.6	32
13	Experimental investigation on polymeric net-RCM reinforced masonry panels. Composite Structures, 2013, 105, 207-215.	5.8	31
14	Critical surfaces for adobe masonry: Micromechanical approach. Composites Part B: Engineering, 2014, 56, 790-796.	12.0	29
15	Nonlocal strain and stress gradient elasticity of Timoshenko nano-beams with loading discontinuities. International Journal of Engineering Science, 2022, 173, 103620.	5.0	27
16	Variational approaches for bending and buckling of non-local stress-driven Timoshenko nano-beams for smart materials. Mechanics Research Communications, 2020, 103, 103470.	1.8	24
17	Micromechanical analysis of adobe masonry as two-component composite: Influence of bond and loading schemes. Composite Structures, 2014, 112, 254-263.	5.8	23
18	Eigenstrain and Fourier series for evaluation of elastic local fields and effective properties of periodic composites. Composites Part B: Engineering, 2015, 81, 251-258.	12.0	22

#	Article	IF	Citations
19	Fourier series expansion in non-orthogonal coordinate system for the homogenization of linear viscoelastic periodic composites. Composites Part B: Engineering, 2013, 54, 241-245.	12.0	21
20	Nonlocal layerwise formulation for bending of multilayered/functionally graded nanobeams featuring weak bonding. European Journal of Mechanics, A/Solids, 2021, 86, 104193.	3.7	15
21	Micromechanical analysis of periodic composites by prescribing the average stress. Annals of Solid and Structural Mechanics, 2010, 1, 117-137.	0.5	14
22	Modeling of buckling of nanobeams embedded in elastic medium by local-nonlocal stress-driven gradient elasticity theory. Composite Structures, 2022, 297, 115907.	5.8	7
23	A micromechanical four-phase model to predict the compressive failure surface of cement concrete. Frattura Ed Integrita Strutturale, 2014, 8, 19-27.	0.9	2
24	Local stress in periodic composites via the Riesz summability method. Composites Part B: Engineering, 2018, 150, 27-35.	12.0	1
25	Predictive model for the collapse load of masonry assemblage with two piers joined by a spandrel. Meccanica, 2018, 53, 1803-1817.	2.0	1
26	Summability Methods for Elastic Local Fields in Periodic Heterogeneous Materials. Mathematical Problems in Engineering, 2018, 2018, 1-13.	1.1	1
27	Bending and Buckling of Timoshenko Nano-Beams in Stress-Driven Approach. Lecture Notes in Mechanical Engineering, 2020, , 832-841.	0.4	0