Andrea Caporale

List of Publications by Year
in descending order

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	Exact closed-form solutions for nonlocal beams with loading discontinuities. Mechanics of Advanced Materials and Structures, 2022, 29, 694-704.	2.6	32
2	Nonlocal strain and stress gradient elasticity of Timoshenko nano-beams with loading discontinuities. International Journal of Engineering Science, 2022, 173, 103620.	5.0	27
3	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
4	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
5	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
6	Higher modes of buckling in shear deformable nanobeams. International Journal of Engineering Science, 2020, 154, 103338.	5.0	50
7	Bending and Buckling of Timoshenko Nano-Beams in Stress-Driven Approach. Lecture Notes in Mechanical Engineering, 2020, , 832-841.	0.4	0
8	A stress-driven local-nonlocal mixture model for Timoshenko nano-beams. Composites Part B: Engineering, 2019, 164, 590-598.	12.0	75
9	Local stress in periodic composites via the Riesz summability method. Composites Part B: Engineering, 2018, 150, 27-35.	12.0	1
10	Predictive model for the collapse load of masonry assemblage with two piers joined by a spandrel. Meccanica, 2018, 53, 1803-1817.	2.0	1
11	Summability Methods for Elastic Local Fields in Periodic Heterogeneous Materials. Mathematical Problems in Engineering, 2018, 2018, 1-13.	1.1	1
12	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
13	Comparative micromechanical assessment of adobe and clay brick masonry assemblages based on experimental data sets. Composite Structures, 2015, 120, 208-220.	5.8	38
14	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
15	Critical surfaces for adobe masonry: Micromechanical approach. Composites Part B: Engineering, 2014, 56, 790-796.	12.0	29
16	Micromechanical analysis of adobe masonry as two-component composite: Influence of bond and loading schemes. Composite Structures, 2014, 112, 254-263.	5.8	23
17	Debonding of FRP in multi-span masonry arch structures via limit analysis. Composite Structures, 2014, 108, 856-865.	5.8	53
18	Damage mechanics of cement concrete modeled as a four-phase composite. Composites Part B: Engineering, 2014, 65, 124-130.	12.0	33

#	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	Strengthening of masonry–unreinforced concrete railway bridges with PBO-FRCM materials. Composite Structures, 2013, 102, 193-204.	5.8	66
21	Numerical collapse load of multi-span masonry arch structures with FRP reinforcement. Composites Part B: Engineering, 2013, 54, 71-84.	12.0	57
22	Experimental investigation on polymeric net-RCM reinforced masonry panels. Composite Structures, 2013, 105, 207-215.	5.8	31
23	Limit analysis of masonry arches with finite compressive strength and externally bonded reinforcement. Composites Part B: Engineering, 2012, 43, 3131-3145.	12.0	52
24	Limit analysis of FRP strengthened masonry arches via nonlinear and linear programming. Composites Part B: Engineering, 2012, 43, 439-446.	12.0	53
25	Micromechanical analysis of periodic composites by prescribing the average stress. Annals of Solid and Structural Mechanics, 2010, 1, 117-137.	0.5	14
26	Limit analysis of masonry arches with externally bonded FRP reinforcements. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 247-260.	6.6	55
27	Micromechanical analysis of interfacial debonding in unidirectional fiber-reinforced composites. Computers and Structures, 2006, 84, 2200-2211.	4.4	77