Maurizio Angelillo

List of Publications by Year
in descending order

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42 papers	1,084 citations	471371 17 h-index	414303 32 g-index
42 all docs	42 docs citations	42 times ranked	711 citing authors

#	Article	IF	Citations
1	Anisotropic constitutive equations and experimental tensile behavior of brain tissue. Biomechanics and Modeling in Mechanobiology, 2006, 5, 53-61.	1.4	205
2	Singular stress fields for masonry-like vaults. Continuum Mechanics and Thermodynamics, 2013, 25, 423-441.	1.4	81
3	A lumped stress method for plane elastic problems and the discrete-continuum approximation. International Journal of Solids and Structures, 2002, 39, 6211-6240.	1.3	77
4	A numerical model for masonry-like structures. Journal of Mechanics of Materials and Structures, 2010, 5, 583-615.	0.4	69
5	Masonry behaviour and modelling. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 1-26.	0.3	58
6	Constitutive relations for no-tension materials. Meccanica, 1993, 28, 195-202.	1.2	48
7	Singular stress fields in masonry structures: Derand was right. Meccanica, 2014, 49, 1243-1262.	1.2	43
8	Static analysis of a Guastavino helical stair as a layered masonry shell. Composite Structures, 2015, 119, 298-304.	3.1	43
9	Theoretical and numerical analysis of the corneal air puff test. Journal of the Mechanics and Physics of Solids, 2016, 93, 118-134.	2.3	43
10	Rigid block models for masonry structures. International Journal of Masonry Research and Innovation, 2018, 3, 349.	0.3	31
11	Modelling with a meshfree approach the cornea-aqueous humor interaction during the air puff test. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 205-216.	1.5	25
12	Bio-Nano-Composite Materials Constructed With Single Cells and Carbon Nanotubes: Mechanical, Electrical, and Optical Properties. IEEE Nanotechnology Magazine, 2013, 12, 1026-1030.	1.1	23
13	Modeling the biomechanics of the human cornea accounting for local variations of the collagen fibril architecture. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 2122-2134.	0.9	22
14	Equilibrium of Masonry Vaults. Lecture Notes in Applied and Computational Mechanics, 2004, , 105-111.	2.0	22
15	Parametric design of purely compressed shells. Mechanics of Materials, 2021, 155, 103782.	1.7	21
16	Masonry structures made of monolithic blocks with an application to spiral stairs. Meccanica, 2018, 53, 2171-2191.	1.2	20
17	Numerical solutions for crack growth based on the variational theory of fracture. Computational Mechanics, 2012, 50, 285-301.	2.2	18
18	Crack patterns identification in masonry structures with a CÂ° displacement energy method. International Journal of Masonry Research and Innovation, 2018, 3, 295.	0.3	18

#	Article	IF	Citations
19	A new equilibrium solution for masonry spiral stairs. Engineering Structures, 2021, 238, 112176.	2.6	16
20	The Equilibrium of Helical Stairs Made of Monolithic Steps. International Journal of Architectural Heritage, 2016, 10, 675-687.	1.7	15
21	From Stress to Shape: Equilibrium of Cloister and Cross Vaults. Applied Sciences (Switzerland), 2021, 11, 3846.	1.3	15
22	Practical applications of unilateral models to Masonry Equilibrium. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 109-210.	0.3	14
23	Theory of diaphragm structure and shape. Journal of Applied Physiology, 1997, 83, 1486-1491.	1.2	12
24	A 3D fluid-solid interaction model of the air puff test in the human cornea. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 22-31.	1.5	12
25	Seismic capacity of buttressed masonry arches. Engineering Structures, 2020, 215, 110661.	2.6	12
26	Arch bridges subject to pier settlements: continuous vs. piecewise rigid displacement methods. Meccanica, 2021, 56, 2487-2505.	1.2	12
27	On statically admissible stress fields for a plane masonry-like structure. Quarterly of Applied Mathematics, 1995, 53, 731-751.	0.5	11
28	Muscle kinematics for minimal work of breathing. Journal of Applied Physiology, 1999, 87, 554-560.	1.2	11
29	The model of Heyman and the statical and kinematical problems for masonry structures. International Journal of Masonry Research and Innovation, 2019, 4, 14.	0.3	11
30	Structural failures due to anthropogenic sinkholes in the urban area of Naples and the effect of a FRP retrofitting. Composites Part B: Engineering, 2017, 108, 190-199.	5.9	10
31	Folding of Thin Walled Tubes as a Free Gradient Discontinuity Problem. Journal of Elasticity, 2006, 82, 243-271.	0.9	9
32	On the use of uniaxial tests on the sclera to understand the difference between emmetropic and highly myopic eyes. Meccanica, 2017, 52, 603-612.	1.2	9
33	A limit analysis approach for masonry domes: the basilica of San Francesco di Paola in Naples. International Journal of Masonry Research and Innovation, 2019, 4, 227.	0.3	9
34	A finite element approach to the study of no-tension structures. Finite Elements in Analysis and Design, 1994, 17, 57-73.	1.7	8
35	Shape of the canine diaphragm. Journal of Applied Physiology, 2000, 89, 15-20.	1.2	7
36	Geometry and Stability of a Double-shell Dome in Four Building Phases: The Case Study of Santa Maria Alla SanitÃ in Naples. International Journal of Architectural Heritage, 2023, 17, 362-388.	1.7	7

#	Article	IF	Citations
37	A Numerical Method for Fracture of Rods. , 2005, , 277-292.		7
38	Global Constraints for Stress Constrained Materials: The Problem of Saint Venant. Meccanica, 2001, 36, 497-524.	1.2	4
39	Rigid block models for masonry structures. International Journal of Masonry Research and Innovation, 2018, 3, 349.	0.3	3
40	Cyborgs Structured with Carbon Nanotubes and Plant or Fungal Cells: Artificial Tissue Engineering for Mechanical and Electronic Uses. Materials Research Society Symposia Proceedings, 2013, 1572, 1.	0.1	2
41	A limit analysis approach for masonry domes: the basilica of San Francesco di Paola in Naples. International Journal of Masonry Research and Innovation, 2019, 4, 227.	0.3	1
42	Crack patterns identification in masonry structures with a CÂº displacement energy method. International Journal of Masonry Research and Innovation, 2018, 3, 295.	0.3	0