Angelo Rosario Carotenuto

List of Publications by Year
in descending order

19	325	933264 10	839398 18
papers	citations	h-index	g-index

20	20	20	242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrasound waves in tumors via needle irradiation for precise medicine. Scientific Reports, 2022, 12, 6513.	1.6	5
2	Generalized multiple peeling theory uploading hyperelasticity and pre-stress. Extreme Mechanics Letters, 2021, 42, 101085.	2.0	10
3	Unveiling a new shear stress transfer mechanism in composites with helically wound hierarchicalÂfibres. International Journal of Mechanical Sciences, 2021, 192, 106135.	3.6	10
4	Lyapunov stability of competitive cells dynamics in tumor mechanobiology. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 244-263.	1.5	4
5	A lesson from earthquake engineering for selectively damaging cancer cell structures. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104533.	1.5	5
6	Mechanotropism of single cells adhering to elastic substrates subject to exogenous forces. Journal of the Mechanics and Physics of Solids, 2021, 153, 104475.	2.3	2
7	Multiscale geometry and mechanics of lipid monolayer collapse. Current Topics in Membranes, 2021, 87, 1-45.	0.5	2
8	Burrowing below ground: interaction between soil mechanics and evolution of subterranean mammals. Journal of the Royal Society Interface, 2020, 17, 20190521.	1.5	12
9	Growth and remodeling in highly stressed solid tumors. Meccanica, 2019, 54, 1941-1957.	1.2	13
10	Eulerâ€™s Elastica-Based Biomechanics of the Papillary Muscle Approximation in Ischemic Mitral Valve Regurgitation: A Simple 2D Analytical Model. Materials, 2019, 12, 1518.	1.3	15
11	Buckling soft tensegrities: Fickle elasticity and configurational switching in living cells. Journal of the Mechanics and Physics of Solids, 2019, 124, 299-324.	2.3	32
12	Cells competition in tumor growth poroelasticity. Journal of the Mechanics and Physics of Solids, 2018, 112, 345-367.	2.3	44
13	Simulating the ideal geometrical and biomechanical parameters of the pulmonary autograft to prevent failure in the Ross operation. Interactive Cardiovascular and Thoracic Surgery, 2018, 27, 269-276.	0.5	22
14	Nonlinear elasticity and buckling in the simplest soft-strut tensegrity paradigm. International Journal of Non-Linear Mechanics, 2018, 106, 80-88.	1.4	17
15	Growth and in vivo stresses traced through tumor mechanics enriched with predator-prey cells dynamics. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 55-70.	1.5	21
16	Stealthy role of size-driven stresses in biomechanics of breast implants capsular contracture. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 64, 199-208.	1.5	8
17	Biomechanics drive histological wall remodeling of neoaortic root: A mathematical model to study the expression levels of ki 67, metalloprotease, and apoptosis transition. Journal of Biomedical Materials Research - Part A, 2016, 104, 2785-2793.	2.1	25
18	Compliance mismatch and compressive wall stresses drive anomalous remodelling of pulmonary trunks reinforced with Dacron grafts. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 287-302.	1.5	41

#	Article	IF	Citations
19	Stress-shielding, growth and remodeling of pulmonary artery reinforced with copolymer scaffold and transposed into aortic position. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1141-1157.	1.4	37