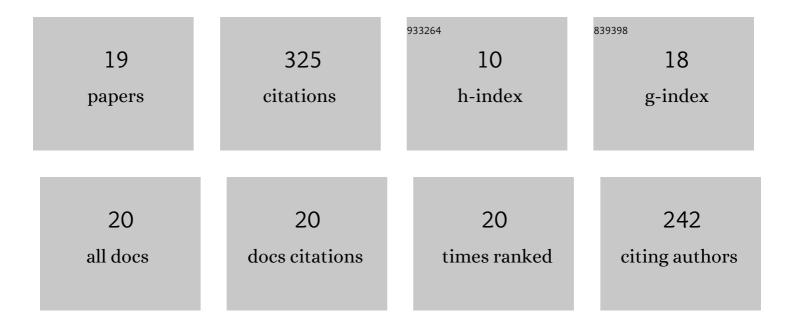
Angelo Rosario Carotenuto

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Cells competition in tumor growth poroelasticity. Journal of the Mechanics and Physics of Solids, 2018, 112, 345-367. | 2.3 | 44 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Nonlinear elasticity and buckling in the simplest soft-strut tensegrity paradigm. International Journal of Non-Linear Mechanics, 2018, 106, 80-88. | 1.4 | 17 |
| 9 | Euler'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 |
| 10 | Growth and remodeling in highly stressed solid tumors. Meccanica, 2019, 54, 1941-1957. | 1.2 | 13 |
| 11 | Burrowing below ground: interaction between soil mechanics and evolution of subterranean mammals. Journal of the Royal Society Interface, 2020, 17, 20190521. | 1.5 | 12 |
| 12 | Generalized multiple peeling theory uploading hyperelasticity and pre-stress. Extreme Mechanics Letters, 2021, 42, 101085. | 2.0 | 10 |
| 13 | Unveiling a new shear stress transfer mechanism in composites with helically wound hierarchicalÂfibres. International Journal of Mechanical Sciences, 2021, 192, 106135. | 3.6 | 10 |
| 14 | 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 |
| 15 | 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 |
| 16 | Ultrasound waves in tumors via needle irradiation for precise medicine. Scientific Reports, 2022, 12, 6513. | 1.6 | 5 |
| 17 | Lyapunov stability of competitive cells dynamics in tumor mechanobiology. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 244-263. | 1.5 | 4 |
| 18 | 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 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Multiscale geometry and mechanics of lipid monolayer collapse. Current Topics in Membranes, 2021, 87, 1-45. | 0.5 | 2 |