Giuseppe SciumÃ¨

List of Publications by Year
in descending order

22 papers	491 citations	840776 11 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	400 citing authors

#	Article	IF	Citations
1	Cortex tissue relaxation and slow to medium load rates dependency can be captured by a two-phase flow poroelastic model. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 104952.	3.1	8
2	SociÃ©tÃ© de BiomÃ©canique Young Investigator Award 2021: Numerical investigation of the time-dependent stressâ€“strain mechanical behaviour of skeletal muscle tissue in the context of pressure ulcer prevention. Clinical Biomechanics, 2022, 93, 105592.	1.2	3
3	Oncology and mechanics: Landmark studies and promising clinical applications. Advances in Applied Mechanics, 2022, , 513-571.	2.3	2
4	Mechanistic modeling of vascular tumor growth: an extension of Biotâ€™s theory to hierarchical bi-compartment porous medium systems. Acta Mechanica, 2021, 232, 1445-1478.	2.1	6
5	Digital twinning of Cellular Capsule Technology: Emerging outcomes from the perspective of porous media mechanics. PLoS ONE, 2021, 16, e0254512.	2.5	10
6	Role of mechanical cues and hypoxia on the growth of tumor cells in strong and weak confinement: A dual in vitroâ€“in silico approach. Science Advances, 2020, 6, eaaz7130.	10.3	15
7	Coupling tumor growth and bio distribution models. Biomedical Microdevices, 2019, 21, 33.	2.8	13
8	COST TU1404 benchmark on macroscopic modelling of concrete and concrete structures at early age: Proof-of-concept stage. Construction and Building Materials, 2018, 174, 173-189.	7.2	19
9	Modeling concrete exposed to high temperature: Impact of dehydration and retention curves on moisture migration. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1516-1530.	3.3	16
10	Multiphase Flow in Deforming Porous Media: A Review. Archives of Computational Methods in Engineering, 2017, 24, 423-448.	10.2	33
11	A viscoelastic Unitary Crack-Opening strain tensor for crack width assessment in fractured concrete structures. Mechanics of Time-Dependent Materials, 2017, 21, 223-243.	4.4	4
12	Thermodynamically constrained averaging theory for cancer growth modelling * *Horizon 2020 MSCA grant agreement No 642295 www.melplex.eu. IFAC-PapersOnLine, 2016, 49, 289-294.	0.9	1
13	Mechanics of growing tumors: impact of modeling assumptions and boundary conditions on reliability of numerical results. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 109-110.	0.2	0
14	A tumor growth model with deformable ECM. Physical Biology, 2014, 11, 065004.	1.8	58
15	A twoâ€phase model of plantar tissue: a step toward prediction of diabetic foot ulceration. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1153-1169.	2.1	18
16	Three phase flow dynamics in tumor growth. Computational Mechanics, 2014, 53, 465-484.	4.0	46
17	Saturationâ€“pressure relationships for two- and three-phase flow analogies for soft matter. Mechanics Research Communications, 2014, 62, 132-137.	1.8	19
18	A multiphysics model for concrete at early age applied to repairs problems. Engineering Structures, 2013, 57, 374-387.	5.3	41

#	Article	IF	Citations
19	On Computational Modeling in Tumor Growth. Archives of Computational Methods in Engineering, 2013, 20, 327-352.	10.2	44
20	A multiphase model for three-dimensional tumor growth. New Journal of Physics, 2013, 15, 015005.	2.9	124
21	Tumor growth modeling from the perspective of multiphase porous media mechanics. MCB Molecular and Cellular Biomechanics, 2012, 9, 193-212.	0.7	8
22	A general framework for modeling long-term behavior of earth and concrete dams. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 41-52.	0.4	2