

# Giuseppe Sciumà

## List of Publications by Year in descending order

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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	A multiphase model for three-dimensional tumor growth. <i>New Journal of Physics</i> , 2013, 15, 015005.	2.9	124
2	A tumor growth model with deformable ECM. <i>Physical Biology</i> , 2014, 11, 065004.	1.8	58
3	Three phase flow dynamics in tumor growth. <i>Computational Mechanics</i> , 2014, 53, 465-484.	4.0	46
4	On Computational Modeling in Tumor Growth. <i>Archives of Computational Methods in Engineering</i> , 2013, 20, 327-352.	10.2	44
5	A multiphysics model for concrete at early age applied to repairs problems. <i>Engineering Structures</i> , 2013, 57, 374-387.	5.3	41
6	Multiphase Flow in Deforming Porous Media: A Review. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 423-448.	10.2	33
7	Saturation–pressure relationships for two- and three-phase flow analogies for soft matter. <i>Mechanics Research Communications</i> , 2014, 62, 132-137.	1.8	19
8	COST TU1404 benchmark on macroscopic modelling of concrete and concrete structures at early age: Proof-of-concept stage. <i>Construction and Building Materials</i> , 2018, 174, 173-189.	7.2	19
9	A two-phase model of plantar tissue: a step toward prediction of diabetic foot ulceration. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 1153-1169.	2.1	18
10	Modeling concrete exposed to high temperature: Impact of dehydration and retention curves on moisture migration. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 1516-1530.	3.3	16
11	Role of mechanical cues and hypoxia on the growth of tumor cells in strong and weak confinement: A dual <i>in vitro</i> – <i>in silico</i> approach. <i>Science Advances</i> , 2020, 6, eaaz7130.	10.3	15
12	Coupling tumor growth and bio distribution models. <i>Biomedical Microdevices</i> , 2019, 21, 33.	2.8	13
13	Digital twinning of Cellular Capsule Technology: Emerging outcomes from the perspective of porous media mechanics. <i>PLoS ONE</i> , 2021, 16, e0254512.	2.5	10
14	Tumor growth modeling from the perspective of multiphase porous media mechanics. <i>MCB Molecular and Cellular Biomechanics</i> , 2012, 9, 193-212.	0.7	8
15	Cortex tissue relaxation and slow to medium load rates dependency can be captured by a two-phase flow poroelastic model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 104952.	3.1	8
16	Mechanistic modeling of vascular tumor growth: an extension of Biot’s theory to hierarchical bi-compartment porous medium systems. <i>Acta Mechanica</i> , 2021, 232, 1445-1478.	2.1	6
17	A viscoelastic Unitary Crack-Opening strain tensor for crack width assessment in fractured concrete structures. <i>Mechanics of Time-Dependent Materials</i> , 2017, 21, 223-243.	4.4	4
18	Soci�t� de Biom�canique Young Investigator Award 2021: Numerical investigation of the time-dependent stress–strain mechanical behaviour of skeletal muscle tissue in the context of pressure ulcer prevention. <i>Clinical Biomechanics</i> , 2022, 93, 105592.	1.2	3

#	ARTICLE	IF	CITATIONS
19	A general framework for modeling long-term behavior of earth and concrete dams. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2011, 5, 41-52.	0.4	2
20	Oncology and mechanics: Landmark studies and promising clinical applications. <i>Advances in Applied Mechanics</i> , 2022, , 513-571.	2.3	2
21	Thermodynamically constrained averaging theory for cancer growth modelling * *Horizon 2020 MSCA grant agreement No 642295 <a href="http://www.melplex.eu">www.melplex.eu</a> . <i>IFAC-PapersOnLine</i> , 2016, 49, 289-294.	0.9	1
22	Mechanics of growing tumors: impact of modeling assumptions and boundary conditions on reliability of numerical results. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 109-110.	0.2	0