Adrian Neagu

List of Publications by Citations

43 papers	1,285 citations	14 h-index	35 g-index
50 ext. papers	1,416 ext. citations	2.9 avg, IF	3.94 L-index

#	Paper	IF	Citations
43	Engineering biological structures of prescribed shape using self-assembling multicellular systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 2864-9	11.5	304
42	Tissue engineering by self-assembly of cells printed into topologically defined structures. *Tissue Engineering - Part A*, **2008**, 14, 413-21	3.9	295
41	Fusion of uniluminal vascular spheroids: a model for assembly of blood vessels. *Developmental Dynamics*, **2010**, 239, 398-406	2.9	90
40	Developmental biology and tissue engineering. *Birth Defects Research Part C: Embryo Today Reviews*, **2007**, 81, 320-8		85
39	Three-dimensional tissue constructs built by bioprinting. *Biorheology*, **2006**, 43, 509-13	1.7	72
38	Role of physical mechanisms in biological self-organization. *Physical Review Letters*, **2005**, 95, 178104	7.4	61
37	Fluctuations and the Hofmeister effect. *Biophysical Journal*, **2001**, 81, 1285-94	2.9	42
36	Kinetic Monte Carlo and cellular particle dynamics simulations of multicellular systems. *Physical Review E*, **2012**, 85, 031907	2.4	40
35	Induced quantum numbers in a (2+1)-dimensional electron gas. *Physical Review D*, **1993**, 48, 1785-1791	4.9	37
34	Organ printing: fiction or science. *Biorheology*, **2004**, 41, 371-5	1.7	34
33	COMPUTATIONAL MODELING OF TISSUE SELF-ASSEMBLY. *Modern Physics Letters B*, **2006**, 20, 1217-1231	1.6	33
32	Relating biophysical properties across scales. *Current Topics in Developmental Biology*, **2008**, 81, 461-83	5.3	32
31	Experimental evaluation of apparent tissue surface tension based on the exact solution of the Laplace equation. *Europhysics Letters*, **2008**, 81, 46003	1.6	31
30	Computational modeling of epithelial-mesenchymal transformations. *BioSystems*, **2010**, 100, 23-30	1.9	15
29	Spatial distribution of VEGF isoforms and chemotactic signals in the vicinity of a tumor. *Journal of Theoretical Biology*, **2008**, 252, 593-607	2.3	14
28	The kinetics of cell adhesion to solid scaffolds: an experimental and theoretical approach. *Journal of Biological Physics*, **2008**, 34, 495-509	1.6	14
27	Computer simulations of in vitro morphogenesis. *BioSystems*, **2012**, 109, 430-43	1.9	12

26	Shape changes of bioprinted tissue constructs simulated by the Lattice Boltzmann method. *Computers in Biology and Medicine*, **2016**, 70, 80-87	7	11
25	The secondary structure and the thermal unfolding parameters of the S-layer protein from Lactobacillus salivarius. *European Biophysics Journal*, **2016**, 45, 491-509	1.9	9
24	Role of computer simulation to predict the outcome of 3D bioprinting. *Journal of 3D Printing in Medicine*, **2017**, 1, 103-121	1.5	8
23	Using Sacrificial Cell Spheroids for the Bioprinting of Perfusable 3D Tissue and Organ Constructs: A Computational Study. *Computational and Mathematical Methods in Medicine*, **2019**, 2019, 7853586	2.8	7
22	A study of the thermal denaturation of the S-layer protein fromLactobacillus salivarius. *Physica Scripta*, **2012**, 86, 035801	2.6	7
21	Lattice Boltzmann simulations of the time evolution of living multicellular systems. *Biorheology*, **2011**, 48, 185-97	1.7	6
20	Tissue Engineering by Self-Assembly of Cells Printed into Topologically Defined Structures. *Tissue Engineering*,110306233438005		5
19	Evaluation of the influence of patient positioning on the reliability of lateral cephalometry. *Radiologia Medica*, **2017**, 122, 520-529	6.5	4
18	Circular dichroism and the secondary structure of the ROF2 protein from Arabidopsis thaliana. *Journal of Biological Physics*, **2013**, 39, 635-48	1.6	3
17	Optimal Energetic Conditions for Cell Seeding of Scaffolds. *Topics in Intelligent Engineering and Informatics*, **2012**, 261-272	0.4	2
16	A computer simulation study of cell seeding of a porous biomaterial **2010**,		2
15	3D Bioprinting of Model Tissues That Mimic the Tumor Microenvironment. *Micromachines*, **2021**, 12,	3.3	2
14	Using Portable Ultrasound to Monitor the Neuromuscular Reactivity to Low-Frequency Electrical Stimulation. *Diagnostics*, **2021**, 11,	3.8	2
13	The influence of cell-substrate and cell-medium interfacial tension on the cell spreading **2011**,		1
12	Cell spreading on biocompatible materials studied by computer simulations **2011**,		1
11	Reliability of body composition assessment using A-mode ultrasound in a heterogeneous sample. *European Journal of Clinical Nutrition*, **2021**, 75, 438-445	5.2	1
10	New Software Tools for Hydrogel-Based Bioprinting **2018**,		1
9	Computational study of the self-assembly of two different cell populations in contact with a biomaterial. *Studies in Health Technology and Informatics*, **2015**, 210, 761-5	0.5	1

8	The use of 3D-printed surgical guides and models for sinus lift surgery planning and education. *Journal of 3D Printing in Medicine*, **2019**, 3, 145-155	1.5	0
7	Computational Modeling of Tissue Self-Assembly **2012**, 251-272		0
6	On fermions in a plane coupled to the nonlinear sigma model. *Physica A: Statistical Mechanics and Its Applications*, **1997**, 237, 45-51	3.3	
5	On the Na+,K+ pump in fluctuating membrane potentials. *European Biophysics Journal*, **2001**, 30, 221-6	1.9	
4	Management of Data Structures Generated During Simulations of the Evolution of Multicellular Systems. *Lecture Notes in Computer Science*, **2017**, 325-336	0.9	
3	Evaluation of Different Coronal Sealing Materials in the Endodontically Treated Teeth: An In Vitro Study. *Advances in Materials Science and Engineering*, **2021**, 2021, 1-6	1.5	
2	Computational study of the potential role of chemotaxis in enhancing the cell seeding of tissue engineering scaffolds. *Studies in Health Technology and Informatics*, **2014**, 205, 735-9	0.5	
1	The impact of subject positioning on body composition assessments by air displacement plethysmography evaluated in a heterogeneous sample.. *PLoS ONE*, **2022**, 17, e0267089	3.7	