

Dimitrije StamenoviÄ

List of Publications by Year in descending order

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66
papers

4,043
citations

196777

29
h-index

156644

58
g-index

68
all docs

68
docs citations

68
times ranked

4465
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrin $\beta 1$ orchestrates the abnormal cell-matrix attachment and invasive behaviour of E-cadherin dysfunctional cells. <i>Gastric Cancer</i> , 2022, 25, 124-137.	2.7	13
2	Reply to the "Comment on "Tensional homeostasis at different length scales" by J. Humphrey and C. Cyron, <i>Soft Matter</i> , 2022, 18, DOI: 10.1039/D1SM01151K". <i>Soft Matter</i> , 2022, 18, 680-682.	1.2	0
3	Pattern Generation for Micropattern Traction Microscopy. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0
4	Differential Impacts on Tensional Homeostasis of Gastric Cancer Cells Due to Distinct Domain Variants of E-Cadherin. <i>Cancers</i> , 2022, 14, 2690.	1.7	2
5	Inflation instability in the lung: an analytical model of a thick-walled alveolus with wavy fibres under large deformations. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210594.	1.5	9
6	Effect of correlation between traction forces on tensional homeostasis in clusters of endothelial cells and fibroblasts. <i>Journal of Biomechanics</i> , 2020, 100, 109588.	0.9	5
7	Tensional homeostasis at different length scales. <i>Soft Matter</i> , 2020, 16, 6946-6963.	1.2	21
8	Focal adhesion displacement magnitude is a unifying feature of tensional homeostasis. <i>Acta Biomaterialia</i> , 2020, 113, 372-379.	4.1	7
9	As the endothelial cell reorients, its tensile forces stabilize. <i>Journal of Biomechanics</i> , 2020, 105, 109770.	0.9	7
10	Dependence of Tensional Homeostasis on Cell Type and on Cell-Cell Interactions. <i>Cellular and Molecular Bioengineering</i> , 2018, 11, 175-184.	1.0	16
11	Modeling tensional homeostasis in multicellular clusters. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02801.	1.0	5
12	Tensional homeostasis in endothelial cells is a multicellular phenomenon. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C528-C535.	2.1	21
13	Multicellular Regulation of Tensional Homeostasis. <i>Biophysical Journal</i> , 2015, 108, 307a.	0.2	0
14	Biomechanical imaging of cell stiffness and prestress with subcellular resolution. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 665-678.	1.4	33
15	Topographical control of multiple cell adhesion molecules for traction force microscopy. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 357-365.	0.6	24
16	Tensegrity, cellular biophysics, and the mechanics of living systems. <i>Reports on Progress in Physics</i> , 2014, 77, 046603.	8.1	339
17	Stiffness versus prestress relationship at subcellular length scale. <i>Journal of Biomechanics</i> , 2014, 47, 3222-3225.	0.9	4
18	A Preliminary Assessment of a Novel Pneumatic Unloading Knee Brace on the Gait Mechanics of Patients With Knee Osteoarthritis. <i>PM and R</i> , 2013, 5, 816-824.	0.9	24

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19	Cytoskeletal Prestress as a Determinant of Deformability and Rheology of Adherent Cells. , 2012, , 92-118.		4
20	Fluidization, resolidification, and reorientation of the endothelial cell in response to slow tidal stretches. American Journal of Physiology - Cell Physiology, 2012, 303, C368-C375.	2.1	54
21	A micropatterning and image processing approach to simplify measurement of cellular traction forces. Acta Biomaterialia, 2012, 8, 82-88.	4.1	79
22	Lung Parenchymal Mechanics. , 2011, 1, 1317-1351.		139
23	A Model for Stress Fiber Realignment Caused by Cytoskeletal Fluidization During Cyclic Stretching. Cellular and Molecular Bioengineering, 2011, 4, 67-80.	1.0	17
24	Stress Transmission within the Cell. , 2011, 1, 499-524.		21
25	Pneumatic Osteoarthritis Knee Brace. Journal of Biomechanical Engineering, 2009, 131, 045001.	0.6	18
26	A zipper network model of the failure mechanics of extracellular matrices. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1081-1086.	3.3	33
27	Mechanical Stability Determines Stress Fiber and Focal Adhesion Orientation. Cellular and Molecular Bioengineering, 2009, 2, 475-485.	1.0	31
28	Tensegrity-guided self assembly: from molecules to living cells. Soft Matter, 2009, 5, 1137-1145.	1.2	62
29	Rheological behavior of mammalian cells. Cellular and Molecular Life Sciences, 2008, 65, 3592-3605.	2.4	38
30	Durotaxis as an elastic stability phenomenon. Journal of Biomechanics, 2008, 41, 1289-1294.	0.9	48
31	Cytoskeletal mechanics in airway smooth muscle cells. Respiratory Physiology and Neurobiology, 2008, 163, 25-32.	0.7	16
32	Power-law creep behavior of a semiflexible chain. Physical Review E, 2008, 78, 041922.	0.8	12
33	Rheological Behavior of Living Cells Is Timescale-Dependent. Biophysical Journal, 2007, 93, L39-L41.	0.2	100
34	Contributions of the Active and Passive Components of the Cytoskeletal Prestress to Stiffening of Airway Smooth Muscle Cells. Annals of Biomedical Engineering, 2007, 35, 224-234.	1.3	15
35	Two regimes, maybe three?. Nature Materials, 2006, 5, 597-598.	13.3	20
36	On Extended Polar Decomposition. Journal of Elasticity, 2006, 83, 277-289.	0.9	5

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37	Viscoelastic and dynamic nonlinear properties of airway smooth muscle tissue: roles of mechanical force and the cytoskeleton. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L1227-L1237.	1.3	42
38	Dynamics of Prestressed Semiflexible Polymer Chains as a Model of Cell Rheology. <i>Physical Review Letters</i> , 2006, 97, 168101.	2.9	33
39	A mathematical model of cell reorientation in response to substrate stretching. <i>MCB Molecular and Cellular Biomechanics</i> , 2006, 3, 43-8.	0.3	7
40	Microtubules may harden or soften cells, depending of the extent of cell distension. <i>Journal of Biomechanics</i> , 2005, 38, 1728-1732.	0.9	39
41	Effects of cytoskeletal prestress on cell rheological behavior. <i>Acta Biomaterialia</i> , 2005, 1, 255-262.	4.1	80
42	On Unsheared Tetrads. <i>Journal of Elasticity</i> , 2005, 81, 153-157.	0.9	0
43	Biomechanics of the lung parenchyma: critical roles of collagen and mechanical forces. <i>Journal of Applied Physiology</i> , 2005, 98, 1892-1899.	1.2	263
44	Contractile torque as a steering mechanism for orientation of adherent cells. <i>Mcb Mechanics and Chemistry of Biosystems</i> , 2005, 2, 69-76.	0.3	1
45	A Computational Tensegrity Model Predicts Dynamic Rheological Behaviors in Living Cells. <i>Annals of Biomedical Engineering</i> , 2004, 32, 520-530.	1.3	103
46	Distending stress of the cytoskeleton is a key determinant of cell rheological behavior. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 617-622.	1.0	36
47	Rheology of airway smooth muscle cells is associated with cytoskeletal contractile stress. <i>Journal of Applied Physiology</i> , 2004, 96, 1600-1605.	1.2	128
48	Fractional Derivatives Embody Essential Features of Cell Rheological Behavior. <i>Annals of Biomedical Engineering</i> , 2003, 31, 692-699.	1.3	157
49	A Prestressed Cable Network Model of the Adherent Cell Cytoskeleton. <i>Biophysical Journal</i> , 2003, 84, 1328-1336.	0.2	90
50	Experimental tests of the cellular tensegrity hypothesis. <i>Biorheology</i> , 2003, 40, 221-5.	1.2	10
51	Cell prestress. II. Contribution of microtubules. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C617-C624.	2.1	190
52	Cell prestress. I. Stiffness and prestress are closely associated in adherent contractile cells. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C606-C616.	2.1	591
53	Effect of surface tension on alveolar surface area. <i>Journal of Applied Physiology</i> , 2002, 93, 1015-1022.	1.2	7
54	Effect of the cytoskeletal prestress on the mechanical impedance of cultured airway smooth muscle cells. <i>Journal of Applied Physiology</i> , 2002, 92, 1443-1450.	1.2	54

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55	Dynamic instabilities in the inflating lung. <i>Nature</i> , 2002, 417, 809-811.	13.7	84
56	Contribution of intermediate filaments to cell stiffness, stiffening, and growth. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C188-C194.	2.1	261
57	Invited Review: Engineering approaches to cytoskeletal mechanics. <i>Journal of Applied Physiology</i> , 2000, 89, 2085-2090.	1.2	89
58	Confined and unconfined stress relaxation of cartilage: appropriateness of a transversely isotropic analysis. <i>Journal of Biomechanics</i> , 1999, 32, 1125-1130.	0.9	104
59	The Role of Prestress and Architecture of the Cytoskeleton and Deformability of Cytoskeletal Filaments in Mechanics of Adherent Cells: a Quantitative Analysis. <i>Journal of Theoretical Biology</i> , 1999, 201, 63-74.	0.8	121
60	Mathematical Modeling of the First Inflation of Degassed Lungs. <i>Annals of Biomedical Engineering</i> , 1998, 26, 608-617.	1.3	30
61	A Microstructural Approach to Cytoskeletal Mechanics based on Tensegrity. <i>Journal of Theoretical Biology</i> , 1996, 181, 125-136.	0.8	212
62	Static Shear Modulus of Gas-Liquid Foam Determined by the Punch Indentation Test. <i>Journal of Colloid and Interface Science</i> , 1996, 181, 661-666.	5.0	9
63	Measurements of Shear Wave Propagation Speed in Gas-Liquid Foam. <i>Journal of Colloid and Interface Science</i> , 1994, 163, 269-276.	5.0	7
64	A model of foam elasticity based upon the laws of plateau. <i>Journal of Colloid and Interface Science</i> , 1991, 145, 255-259.	5.0	48
65	The mixture of phases and elastic stability of lungs with constant surface forces. <i>Mathematical Modelling</i> , 1986, 7, 1071-1082.	0.2	5
66	Focal Adhesion Displacement Magnitude is a Unifying Feature of Tensional Homeostasis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0