

Raimon Sunyer

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,037
citations

471061

17
h-index

713013

21
g-index

22
all docs

22
docs citations

22
times ranked

3225
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective cell durotaxis emerges from long-range intercellular force transmission. <i>Science</i> , 2016, 353, 1157-1161.	6.0	484
2	Rigidity sensing and adaptation through regulation of integrin types. <i>Nature Materials</i> , 2014, 13, 631-637.	13.3	304
3	Fabrication of Hydrogels with Steep Stiffness Gradients for Studying Cell Mechanical Response. <i>PLoS ONE</i> , 2012, 7, e46107.	1.1	179
4	Micropatterning of Single Endothelial Cell Shape Reveals a Tight Coupling between Nuclear Volume in G1 and Proliferation. <i>Biophysical Journal</i> , 2008, 94, 4984-4995.	0.2	168
5	Mechanical guidance of cell migration: lessons from chemotaxis. <i>Current Opinion in Cell Biology</i> , 2013, 25, 543-549.	2.6	136
6	Ordering in the pyrochlore antiferromagnet due to Dzyaloshinsky-Moriya interactions. <i>Physical Review B</i> , 2005, 71, .	1.1	120
7	Rheology of Passive and Adhesion-Activated Neutrophils Probed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2006, 91, 3508-3518.	0.2	85
8	Durotaxis. <i>Current Biology</i> , 2020, 30, R383-R387.	1.8	72
9	Mapping Cell-Matrix Stresses during Stretch Reveals Inelastic Reorganization of the Cytoskeleton. <i>Biophysical Journal</i> , 2008, 95, 464-471.	0.2	70
10	Long-lived force patterns and deformation waves at repulsive epithelial boundaries. <i>Nature Materials</i> , 2017, 16, 1029-1037.	13.3	65
11	The temperature dependence of cell mechanics measured by atomic force microscopy. <i>Physical Biology</i> , 2009, 6, 025009.	0.8	64
12	Generation of stable orthogonal gradients of chemical concentration and substrate stiffness in a microfluidic device. <i>Lab on A Chip</i> , 2015, 15, 2606-2614.	3.1	55
13	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. <i>Journal of Applied Physiology</i> , 2006, 101, 512-520.	1.2	41
14	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. <i>Journal of Molecular Recognition</i> , 2007, 20, 459-466.	1.1	40
15	Mapping forces and kinematics during collective cell migration. <i>Methods in Cell Biology</i> , 2015, 125, 309-330.	0.5	39
16	Monitoring developmental force distributions in reconstituted embryonic epithelia. <i>Methods</i> , 2016, 94, 101-113.	1.9	38
17	A hybrid computational model for collective cell durotaxis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1037-1052.	1.4	33
18	Epidermal growth factor receptor and integrins control force-dependent vinculin recruitment to E-Cadherin junctions. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	19

#	ARTICLE	IF	CITATIONS
19	Stiffening and Contraction Induced by Dexamethasone in Alveolar Epithelial Cells. <i>Experimental Mechanics</i> , 2009, 49, 47-55.	1.1	10
20	Multiscale Measurements of the Mechanical Properties of Collagen Matrix. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2815-2824.	2.6	9
21	Involvement of Mechanical Cues in the Migration of Cajal-Retzius Cells in the Marginal Zone During Neocortical Development. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	1.8	6