Raimon Sunyer

List of Publications by Year
in descending order

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21	2,037	471061	713013
papers	citations	17	21
		h-index	g-index

22	22	22	3225
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Involvement of Mechanical Cues in the Migration of Cajal-Retzius Cells in the Marginal Zone During Neocortical Development. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	6
2	Durotaxis. Current Biology, 2020, 30, R383-R387.	1.8	72
3	A hybrid computational model for collective cell durotaxis. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1037-1052.	1.4	33
4	Epidermal growth factor receptor and integrins control force-dependent vinculin recruitment to E-Cadherin junctions. Journal of Cell Science, 2018, 131, .	1.2	19
5	Multiscale Measurements of the Mechanical Properties of Collagen Matrix. ACS Biomaterials Science and Engineering, 2017, 3, 2815-2824.	2.6	9
6	Long-lived force patterns and deformation waves at repulsive epithelial boundaries. Nature Materials, 2017, 16, 1029-1037.	13.3	65
7	Collective cell durotaxis emerges from long-range intercellular force transmission. Science, 2016, 353, 1157-1161.	6.0	484
8	Monitoring developmental force distributions in reconstituted embryonic epithelia. Methods, 2016, 94, 101-113.	1.9	38
9	Mapping forces and kinematics during collective cell migration. Methods in Cell Biology, 2015, 125, 309-330.	0.5	39
10	Generation of stable orthogonal gradients of chemical concentration and substrate stiffness in a microfluidic device. Lab on A Chip, 2015, 15, 2606-2614.	3.1	55
11	Rigidity sensing and adaptation through regulation of integrin types. Nature Materials, 2014, 13, 631-637.	13.3	304
12	Mechanical guidance of cell migration: lessons from chemotaxis. Current Opinion in Cell Biology, 2013, 25, 543-549.	2.6	136
13	Fabrication of Hydrogels with Steep Stiffness Gradients for Studying Cell Mechanical Response. PLoS ONE, 2012, 7, e46107.	1.1	179
14	Stiffening and Contraction Induced by Dexamethasone in Alveolar Epithelial Cells. Experimental Mechanics, 2009, 49, 47-55.	1.1	10
15	The temperature dependence of cell mechanics measured by atomic force microscopy. Physical Biology, 2009, 6, 025009.	0.8	64
16	Micropatterning of Single Endothelial Cell Shape Reveals a Tight Coupling between Nuclear Volume in G1 and Proliferation. Biophysical Journal, 2008, 94, 4984-4995.	0.2	168
17	Mapping Cell-Matrix Stresses during Stretch Reveals Inelastic Reorganization of the Cytoskeleton. Biophysical Journal, 2008, 95, 464-471.	0.2	70
18	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. Journal of Molecular Recognition, 2007, 20, 459-466.	1.1	40

#	Article	IF	Citations
19	Rheology of Passive and Adhesion-Activated Neutrophils Probed by Atomic Force Microscopy. Biophysical Journal, 2006, 91, 3508-3518.	0.2	85
20	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. Journal of Applied Physiology, 2006, 101, 512-520.	1.2	41
21	Ordering in the pyrochlore antiferromagnet due to Dzyaloshinsky-Moriya interactions. Physical Review B, 2005, 71, .	1.1	120