

Pramod A Pullarkat

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

925
citations

567281

15
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	A Master Relation Defines the Nonlinear Viscoelasticity of Single Fibroblasts. <i>Biophysical Journal</i> , 2006, 90, 3796-3805.	0.5	200
2	Mechanical Properties of Axons. <i>Physical Review Letters</i> , 2007, 99, 018301.	7.8	126
3	Role of Actin Filaments in Correlating Nuclear Shape and Cell Spreading. <i>PLoS ONE</i> , 2014, 9, e107895.	2.5	72
4	Osmotically Driven Shape Transformations in Axons. <i>Physical Review Letters</i> , 2006, 96, 048104.	7.8	70
5	Shear rheology of a cell monolayer. <i>New Journal of Physics</i> , 2007, 9, 419-419.	2.9	62
6	The Roles of Microtubules and Membrane Tension in Axonal Beading, Retraction, and Atrophy. <i>Biophysical Journal</i> , 2019, 117, 880-891.	0.5	56
7	An Osmoregulatory Basis for Shape Oscillations in Regenerating Hydra. <i>Biophysical Journal</i> , 2008, 95, 978-985.	0.5	54
8	Mechanogenetic Coupling of Hydra Symmetry Breaking and Driven Turing Instability Model. <i>Biophysical Journal</i> , 2009, 96, 1649-1660.	0.5	41
9	Dynamics of Membrane Tethers Reveal Novel Aspects of Cytoskeleton-Membrane Interactions in Axons. <i>Biophysical Journal</i> , 2015, 108, 489-497.	0.5	39
10	The axonal actin-spectrin lattice acts as a tension buffering shock absorber. <i>ELife</i> , 2020, 9, .	6.0	37
11	Cytoskeletal Mechanisms of Axonal Contractility. <i>Biophysical Journal</i> , 2018, 115, 713-724.	0.5	33
12	Self-Propulsion of Nematic Drops: Novel Phase Separation Dynamics in Impurity-Doped Nematogens. <i>Physical Review Letters</i> , 2006, 97, 115701.	7.8	32
13	Biophysics of Cell-Substrate Interactions Under Shear. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 251.	3.7	27
14	The Role of the Cytoskeleton in Volume Regulation and Beading Transitions in PC12 Neurites. <i>Biophysical Journal</i> , 2010, 99, 3571-3579.	0.5	24
15	Drag Force as a Tool to Test the Active Mechanical Response of PC12 Neurites. <i>Biophysical Journal</i> , 2010, 98, 515-523.	0.5	23
16	Modeling cell-substrate de-adhesion dynamics under fluid shear. <i>Physical Biology</i> , 2018, 15, 046006.	1.8	12
17	Optical fiber-based force transducer for microscale samples. <i>Review of Scientific Instruments</i> , 2013, 84, 105107.	1.3	6
18	The role of mechanics in axonal stability and development. <i>Seminars in Cell and Developmental Biology</i> , 2023, 140, 22-34.	5.0	3

#	ARTICLE	IF	CITATIONS
19	Oscillatory extensional rheology of microscale fluid filaments. <i>Rheologica Acta</i> , 2017, 56, 113-122.	2.4	2
20	Strain softening and stiffening responses of spider silk fibers probed using a Micro-Extension Rheometer. <i>Soft Matter</i> , 2020, 16, 487-493.	2.7	1
21	Investigation of soft and living matter using a micro-extensional rheometer. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 084003.	1.8	1
22	Cell Morphology and Substrate Ligand Density Determines Adhesion Strength and Remodelling Under Dynamic Shear. <i>Biophysical Journal</i> , 2020, 118, 604a.	0.5	0