

Jin-Yu Shao

List of Publications by Year in descending order

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24
papers

546
citations

623574

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24
times ranked

529
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-throughput microfluidic device for probing calcium dynamics of single cells squeezing through narrow channels. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 115014.	1.5	2
2	From Surface Protrusion to Tether Extraction: A Mechanistic Model. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3036-3042.	2.6	2
3	Flexural Rigidity and Shear Stiffness of Flagella Estimated from Induced Bends and Counterbends. <i>Biophysical Journal</i> , 2016, 110, 2759-2768.	0.2	61
4	Endothelial Surface Protrusion by a Point Force. <i>Biophysical Journal</i> , 2016, 110, 1150-1157.	0.2	2
5	Tangential Tether Extraction and Spontaneous Tether Retraction of Human Neutrophils. <i>Biophysical Journal</i> , 2012, 103, 2257-2264.	0.2	6
6	The Constitutive Equation for Membrane Tether Extraction. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3756-3765.	1.3	9
7	Unfolding the A2 Domain of Von Willebrand Factor with the Optical Trap. <i>Biophysical Journal</i> , 2010, 98, 1685-1693.	0.2	53
8	Chapter 2 Biomechanics of Leukocyte and Endothelial Cell Surface. <i>Current Topics in Membranes</i> , 2009, 64, 25-45.	0.5	6
9	Validation, In-Depth Analysis, and Modification of the Micropipette Aspiration Technique. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 351-365.	1.0	8
10	A Novel Technique of Quantifying Flexural Stiffness of Rod-Like Structures. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 75-83.	1.0	5
11	Human neutrophil surface protrusion under a point load: location independence and viscoelasticity. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1434-C1444.	2.1	27
12	Simultaneous Tether Extraction Contributes to Neutrophil Rolling Stabilization: A Model Study. <i>Biophysical Journal</i> , 2007, 92, 418-429.	0.2	22
13	Double-Tether Extraction from Human Umbilical Vein and Dermal Microvascular Endothelial Cells. <i>Biophysical Journal</i> , 2007, 92, 1035-1045.	0.2	15
14	Effect of Temperature on Tether Extraction, Surface Protrusion, and Cortical Tension of Human Neutrophils. <i>Biophysical Journal</i> , 2007, 93, 2923-2933.	0.2	19
15	Simultaneous Tether Extraction from Endothelial Cells and Leukocytes: Observation, Mechanics, and Significance. <i>Biophysical Journal</i> , 2007, 93, 4041-4052.	0.2	28
16	The Adhesion Between a Microvillus-Bearing Cell and a Ligand-Coated Substrate: A Monte Carlo Study. <i>Annals of Biomedical Engineering</i> , 2007, 35, 397-407.	1.3	18
17	A Model for CD2/CD58-Mediated Adhesion Strengthening. <i>Annals of Biomedical Engineering</i> , 2005, 33, 483-493.	1.3	11
18	Double Tether Extraction from Human Neutrophils and Its Comparison with CD4+ T-Lymphocytes. <i>Biophysical Journal</i> , 2005, 88, 661-669.	0.2	24

#	ARTICLE	IF	CITATIONS
19	Quantifying cell-adhesion strength with micropipette manipulation: principle and application. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 2183.	3.0	32
20	Membrane Tether Extraction from Human Umbilical Vein Endothelial Cells and Its Implication in Leukocyte Rolling. <i>Biophysical Journal</i> , 2004, 87, 3561-3568.	0.2	32
21	Finite Element Analysis of Imposing Femtonewton Forces with Micropipette Aspiration. <i>Annals of Biomedical Engineering</i> , 2002, 30, 546-554.	1.3	14
22	A Modified Micropipette Aspiration Technique and Its Application to Tether Formation From Human Neutrophils. <i>Journal of Biomechanical Engineering</i> , 2002, 124, 388-396.	0.6	53
23	Mechanical Anchoring Strength of L-Selectin, β_2 Integrins, and CD45 to Neutrophil Cytoskeleton and Membrane. <i>Biophysical Journal</i> , 1999, 77, 587-596.	0.2	76
24	The Resistance to Flow of Individual Human Neutrophils in Glass Capillary Tubes with Diameters between 4.65 and 7.75 μm . <i>Microcirculation</i> , 1997, 4, 61-74.	1.0	21