

# Jin-Yu Shao

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

546  
citations

623574

14  
h-index

642610

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

529  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Mechanical Anchoring Strength of L-Selectin, $\beta_2$ Integrins, and CD45 to Neutrophil Cytoskeleton and Membrane. <i>Biophysical Journal</i> , 1999, 77, 587-596.                  | 0.2 | 76        |
| 2  | Flexural Rigidity and Shear Stiffness of Flagella Estimated from Induced Bends and Counterbends. <i>Biophysical Journal</i> , 2016, 110, 2759-2768.                                  | 0.2 | 61        |
| 3  | 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        |
| 4  | Unfolding the A2 Domain of Von Willebrand Factor with the Optical Trap. <i>Biophysical Journal</i> , 2010, 98, 1685-1693.  | 0.2 | 53        |
| 5  | Quantifying cell-adhesion strength with micropipette manipulation: principle and application. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 2183.                             | 3.0 | 32        |
| 6  | 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        |
| 7  | Simultaneous Tether Extraction from Endothelial Cells and Leukocytes: Observation, Mechanics, and Significance. <i>Biophysical Journal</i> , 2007, 93, 4041-4052.                    | 0.2 | 28        |
| 8  | 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        |
| 9  | Double Tether Extraction from Human Neutrophils and Its Comparison with CD4+ T-Lymphocytes. <i>Biophysical Journal</i> , 2005, 88, 661-669.  | 0.2 | 24        |
| 10 | Simultaneous Tether Extraction Contributes to Neutrophil Rolling Stabilization: A Model Study. <i>Biophysical Journal</i> , 2007, 92, 418-429.                                       | 0.2 | 22        |
| 11 | The Resistance to Flow of Individual Human Neutrophils in Glass Capillary Tubes with Diameters between 4.65 and 7.75 $\mu\text{m}$ . <i>Microcirculation</i> , 1997, 4, 61-74.       | 1.0 | 21        |
| 12 | 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        |
| 13 | 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        |
| 14 | Double-Tether Extraction from Human Umbilical Vein and Dermal Microvascular Endothelial Cells. <i>Biophysical Journal</i> , 2007, 92, 1035-1045.                                     | 0.2 | 15        |
| 15 | Finite Element Analysis of Imposing Femtonewton Forces with Micropipette Aspiration. <i>Annals of Biomedical Engineering</i> , 2002, 30, 546-554.                                    | 1.3 | 14        |
| 16 | A Model for CD2/CD58-Mediated Adhesion Strengthening. <i>Annals of Biomedical Engineering</i> , 2005, 33, 483-493.   | 1.3 | 11        |
| 17 | The Constitutive Equation for Membrane Tether Extraction. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3756-3765.   | 1.3 | 9         |
| 18 | Validation, In-Depth Analysis, and Modification of the Micropipette Aspiration Technique. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 351-365.                           | 1.0 | 8         |

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|----|---|-----|-----------|
| 19 | Chapter 2 Biomechanics of Leukocyte and Endothelial Cell Surface. <i>Current Topics in Membranes</i> , 2009, 64, 25-45.   | 0.5 | 6         |
| 20 | Tangential Tether Extraction and Spontaneous Tether Retraction of Human Neutrophils. <i>Biophysical Journal</i> , 2012, 103, 2257-2264.   | 0.2 | 6         |
| 21 | A Novel Technique of Quantifying Flexural Stiffness of Rod-Like Structures. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 75-83.  | 1.0 | 5         |
| 22 | Endothelial Surface Protrusion by a Point Force. <i>Biophysical Journal</i> , 2016, 110, 1150-1157.   | 0.2 | 2         |
| 23 | From Surface Protrusion to Tether Extraction: A Mechanistic Model. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3036-3042.  | 2.6 | 2         |
| 24 | 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         |