# Lining Ju

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 1,679 citations | 361413 20 h-index | 315739 38 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 2113 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enabling peristalsis of human colon tumor organoids on microfluidic chips. Biofabrication, 2022, 14, 015006. | 7.1 | 27 |
| 2 | Mechano-Redox Control of Integrins in Thromboinflammation. Antioxidants and Redox Signaling, 2022, 37, 1072-1093. | 5.4 | 1 |
| 3 | Microfluidic post method for 3-dimensional modeling of plateletâ€“leukocyte interactions. Analyst, The, 2022, 147, 1222-1235. | 3.5 | 7 |
| 4 | The N-terminal autoinhibitory module of the A1 domain in von Willebrand factor stabilizes the mechanosensor catch bond. RSC Chemical Biology, 2022, 3, 707-720. | 4.1 | 10 |
| 5 | Micropipette-based biomechanical nanotools on living cells. European Biophysics Journal, 2022, 51, 119-133. | 2.2 | 16 |
| 6 | Fluorescence-coupled micropipette aspiration assay to examine calcium mobilization caused by red blood cell mechanosensing. European Biophysics Journal, 2022, 51, 135-146. | 2.2 | 9 |
| 7 | Recent Advances of Optical Tweezersâ€“Based Dynamic Force Spectroscopy and Mechanical Measurement Assays for Live-Cell Mechanobiology. Frontiers in Physics, 2022, 10, . | 2.1 | 7 |
| 8 | The soluble N-terminal autoinhibitory module of the A1 domain in von Willebrand factor partially suppresses its catch bond with glycoprotein Ibα in a sandwich complex. Physical Chemistry Chemical Physics, 2022, 24, 14857-14865. | 2.8 | 2 |
| 9 | Computational Fluid Dynamics Simulations at Micro-Scale Stenosis for Microfluidic Thrombosis Model Characterization. MCB Molecular and Cellular Biomechanics, 2021, 18, 1-10. | 0.7 | 7 |
| 10 | A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. Nature, 2021, 591, 438-444. | 27.8 | 158 |
| 11 | Hemodynamic analysis for stenosis microfluidic model of thrombosis with refined computational fluid dynamics simulation. Scientific Reports, 2021, 11, 6875. | 3.3 | 23 |
| 12 | Modified N-linked glycosylation status predicts trafficking defective human Piezo1 channel mutations. Communications Biology, 2021, 4, 1038. | 4.4 | 18 |
| 13 | Novel Pressure-Regulated Deployment Strategy for Improving the Safety and Efficacy of Balloon-Expandable Transcatheter Aortic Valves. JACC: Cardiovascular Interventions, 2021, 14, 2503-2515. | 2.9 | 10 |
| 14 | Emerging Microfluidic Approaches for Platelet Mechanobiology and Interplay With Circulatory Systems. Frontiers in Cardiovascular Medicine, 2021, 8, 766513. | 2.4 | 11 |
| 15 | Molecular Spring Constant Analysis by Biomembrane Force Probe Spectroscopy. Journal of Visualized Experiments, 2021, , . | 0.3 | 2 |
| 16 | Platelet Mechanobiology Inspired Microdevices: From Hematological Function Tests to Disease and Drug Screening. Frontiers in Pharmacology, 2021, 12, 779753. | 3.5 | 6 |
| 17 | Partial loss of actin nucleator actinâ€related protein 2/3 activity triggers blebbing in primary T lymphocytes. Immunology and Cell Biology, 2020, 98, 93-113. | 2.3 | 20 |
| 18 | Ultra-stable Biomembrane Force Probe for Accurately Determining Slow Dissociation Kinetics of PD-1 Blockade Antibodies on Single Living Cells. Nano Letters, 2020, 20, 5133-5140. | 9.1 | 19 |

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|---|---|---|---|
| 19 | Biomechanical thrombosis: the dark side of force and dawn of mechano-medicine. Stroke and Vascular Neurology, 2020, 5, 185-197. | 3.3 | 17 |
| 20 | Upconversion Nonlinear Structured Illumination Microscopy. Nano Letters, 2020, 20, 4775-4781. | 9.1 | 38 |
| 21 | Distinctive Mechano-sensitivity of Focal Adhesion Integrins Î±5Î²1 and Î±VÎ²3 in Conformational Changes. Biophysical Journal, 2020, 118, 162a. | 0.5 | 0 |
| 22 | Dynamic Force Spectroscopy Analysis on the Redox States of Protein Disulphide Bonds. Methods in Molecular Biology, 2019, 1967, 115-131. | 0.9 | 9 |
| 23 | Illustrated Stateâ€ofâ€theâ€Art Capsules of the ISTH 2019 Congress in Melbourne, Australia. Research and Practice in Thrombosis and Haemostasis, 2019, 3, 431-497. | 2.3 | 11 |
| 24 | Dynamic bonds and their roles in mechanosensing. Current Opinion in Chemical Biology, 2019, 53, 88-97. | 6.1 | 31 |
| 25 | Tensile and compressive force regulation on cell mechanosensing. Biophysical Reviews, 2019, 11, 311-318. | 3.2 | 18 |
| 26 | An integrin Î±IIbÎ²3 intermediate affinity state mediates biomechanical platelet aggregation. Nature Materials, 2019, 18, 760-769. | 27.5 | 94 |
| 27 | Straight Channel Microfluidic Chips for the Study of Platelet Adhesion under Flow. Bio-protocol, 2019, 9, e3195. | 0.4 | 7 |
| 28 | Fast Force Loading Disrupts Molecular Binding Stability in Human and Mouse Cell Adhesions. MCB Molecular and Cellular Biomechanics, 2019, 16, 211-223. | 0.7 | 10 |
| 29 | Diabetes and Thrombosis: The Dark Side of the Force. MCB Molecular and Cellular Biomechanics, 2019, 16, 96-96. | 0.7 | 0 |
| 30 | Fast Force Loading Disrupts Molecular Bond Stability in Human and Mouse Cell Adhesions. MCB Molecular and Cellular Biomechanics, 2019, 16, 97-97. | 0.7 | 1 |
| 31 | Autoregulation of von Willebrand factor function by a disulfide bond switch. Science Advances, 2018, 4, eaaq1477. | 10.3 | 79 |
| 32 | Anisotropic functionalization of upconversion nanoparticles. Chemical Science, 2018, 9, 4352-4358. | 7.4 | 45 |
| 33 | Compression force sensing regulates integrin Î±IIbÎ²3 adhesive function on diabetic platelets. Nature Communications, 2018, 9, 1087. | 12.8 | 39 |
| 34 | Apolipoprotein A-IV binds Î±IIbÎ²3 integrin and inhibits thrombosis. Nature Communications, 2018, 9, 3608. | 12.8 | 75 |
| 35 | Platelet receptor-mediated mechanosensing and thrombosis. , 2018, , 285-304. | | 0 |
| 36 | Biophysical nanotools for single-molecule dynamics. Biophysical Reviews, 2018, 10, 1349-1357. | 3.2 | 21 |

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|---|---|---|---|
| 37 | Mechano-redox control of integrin de-adhesion. ELife, 2018, 7, . | 6.0 | 47 |
| 38 | Two-Dimensional Analysis of Cross-Junctional Molecular Interaction by Force Probes. Methods in Molecular Biology, 2017, 1584, 231-258. | 0.9 | 12 |
| 39 | Receptor-mediated cell mechanosensing. Molecular Biology of the Cell, 2017, 28, 3134-3155. | 2.1 | 168 |
| 40 | Dual Biomembrane Force Probe enables single-cell mechanical analysis of signal crosstalk between multiple molecular species. Scientific Reports, 2017, 7, 14185. | 3.3 | 33 |
| 41 | Benchmarks of Biomembrane Force Probe Spring Constant Models. Biophysical Journal, 2017, 113, 2842-2845. | 0.5 | 14 |
| 42 | Cooperative unfolding of distinctive mechanoreceptor domains transduces force into signals. ELife, 2016, 5, . | 6.0 | 66 |
| 43 | MouseMove: an open source program for semi-automated analysis of movement and cognitive testing in rodents. Scientific Reports, 2015, 5, 16171. | 3.3 | 61 |
| 44 | Fluorescence Biomembrane Force Probe: Concurrent Quantitation of Receptor-ligand Kinetics and Binding-induced Intracellular Signaling on a Single Cell. Journal of Visualized Experiments, 2015, , e52975. | 0.3 | 39 |
| 45 | Transport Regulation of Two-Dimensional Receptor-Ligand Association. Biophysical Journal, 2015, 108, 1773-1784. | 0.5 | 17 |
| 46 | Von Willebrand factor-A1 domain binds platelet glycoprotein Ibα in multiple states with distinctive force-dependent dissociation kinetics. Thrombosis Research, 2015, 136, 606-612. | 1.7 | 46 |
| 47 | Force-Induced Unfolding of Leucine-Rich Repeats of Glycoprotein Ibα Strengthens Ligand Interaction. Biophysical Journal, 2015, 109, 1781-1784. | 0.5 | 34 |
| 48 | Identification and Characterization of Integrin alphaIIbbeta3 Intermediate Affinity State Induced By Gpibalpha Mechanotransduction. Blood, 2015, 126, 237-237. | 1.4 | 0 |
| 49 | Dynamic control of β1 integrin adhesion by the plexinD1-sema3E axis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 379-384. | 7.1 | 69 |
| 50 | Dynamic catch of a Thy-1â€“α5β1+syndecan-4 trimolecular complex. Nature Communications, 2014, 5, 4886. | 12.8 | 85 |
| 51 | Apolipoprotein Ë-IV Is a Novel Ligand of Platelet αIIbβ3 Integrin and an Endogenous Thrombosis Inhibitor: Measurement of Single-Molecular Interactions By Biomembrane Force Probe. Blood, 2014, 124, 92-92. | 1.4 | 3 |
| 52 | Abstract 225: Apolipoprotein A-IV Is a ÃŸ3 Integrin Ligand and an Endogenous Inhibitor of Platelets: Novel Mechanisms of Prevention and Treatment for Atherothrombosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, . | 2.4 | 0 |
| 53 | The N-terminal Flanking Region of the A1 Domain Regulates the Force-dependent Binding of von Willebrand Factor to Platelet Glycoprotein Ibα. Journal of Biological Chemistry, 2013, 288, 32289-32301. | 3.4 | 91 |
| 54 | An HMM-based algorithm for evaluating rates of receptor-ligand binding kinetics from thermal fluctuation data. Bioinformatics, 2013, 29, 1511-1518. | 4.1 | 1 |

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| 55 | Loss of the F-BAR protein CIP4 reduces platelet production by impairing membrane-cytoskeleton remodeling. Blood, 2013, 122, 1695-1706. | 1.4 | 35 |
| 56 | A new method for splice site prediction based on the sequence patterns of splicing signals and regulatory elements. Science Bulletin, 2008, 53, 3331-3340. | 9.0 | 9 |