Lining Ju

List of Publications by Year
in descending order

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	Receptor-mediated cell mechanosensing. Molecular Biology of the Cell, 2017, 28, 3134-3155.	2.1	168
2	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. Nature, 2021, 591, 438-444.	27.8	158
3	An integrin Î±IIbÎ²3 intermediate affinity state mediates biomechanical platelet aggregation. Nature Materials, 2019, 18, 760-769.	27.5	94
4	The N-terminal Flanking Region of the A1 Domain Regulates the Force-dependent Binding of von Willebrand Factor to Platelet Glycoprotein Ibî±. Journal of Biological Chemistry, 2013, 288, 32289-32301.	3.4	91
5	Dynamic catch of a Thy-1â€“Î±5Î²1+syndecan-4 trimolecular complex. Nature Communications, 2014, 5, 4886.	12.8	85
6	Autoregulation of von Willebrand factor function by a disulfide bond switch. Science Advances, 2018, 4, eaaq1477.	10.3	79
7	Apolipoprotein A-IV binds Î±IIbÎ²3 integrin and inhibits thrombosis. Nature Communications, 2018, 9, 3608.	12.8	75
8	Dynamic control of Î²1 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
9	Cooperative unfolding of distinctive mechanoreceptor domains transduces force into signals. ELife, 2016, 5, .	6.0	66
10	MouseMove: an open source program for semi-automated analysis of movement and cognitive testing in rodents. Scientific Reports, 2015, 5, 16171.	3.3	61
11	Mechano-redox control of integrin de-adhesion. ELife, 2018, 7, .	6.0	47
12	Von Willebrand factor-A1 domain binds platelet glycoprotein Ibî± in multiple states with distinctive force-dependent dissociation kinetics. Thrombosis Research, 2015, 136, 606-612.	1.7	46
13	Anisotropic functionalization of upconversion nanoparticles. Chemical Science, 2018, 9, 4352-4358.	7.4	45
14	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
15	Compression force sensing regulates integrin Î±IIbÎ²3 adhesive function on diabetic platelets. Nature Communications, 2018, 9, 1087.	12.8	39
16	Upconversion Nonlinear Structured Illumination Microscopy. Nano Letters, 2020, 20, 4775-4781.	9.1	38
17	Loss of the F-BAR protein CIP4 reduces platelet production by impairing membrane-cytoskeleton remodeling. Blood, 2013, 122, 1695-1706.	1.4	35
18	Force-Induced Unfolding of Leucine-Rich Repeats of Glycoprotein Ibî± Strengthens Ligand Interaction. Biophysical Journal, 2015, 109, 1781-1784.	0.5	34

#	Article	IF	Citations
19	Dual Biomembrane Force Probe enables single-cell mechanical analysis of signal crosstalk between multiple molecular species. Scientific Reports, 2017, 7, 14185.	3.3	33
20	Dynamic bonds and their roles in mechanosensing. Current Opinion in Chemical Biology, 2019, 53, 88-97.	6.1	31
21	Enabling peristalsis of human colon tumor organoids on microfluidic chips. Biofabrication, 2022, 14, 015006.	7.1	27
22	Hemodynamic analysis for stenosis microfluidic model of thrombosis with refined computational fluid dynamics simulation. Scientific Reports, 2021, 11, 6875.	3.3	23
23	Biophysical nanotools for single-molecule dynamics. Biophysical Reviews, 2018, 10, 1349-1357.	3.2	21
24	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
25	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
26	Tensile and compressive force regulation on cell mechanosensing. Biophysical Reviews, 2019, 11, 311-318.	3.2	18
27	Modified N-linked glycosylation status predicts trafficking defective human Piezo1 channel mutations. Communications Biology, 2021, 4, 1038.	4.4	18
28	Transport Regulation of Two-Dimensional Receptor-Ligand Association. Biophysical Journal, 2015, 108, 1773-1784.	0.5	17
29	Biomechanical thrombosis: the dark side of force and dawn of mechano-medicine. Stroke and Vascular Neurology, 2020, 5, 185-197.	3.3	17
30	Micropipette-based biomechanical nanotools on living cells. European Biophysics Journal, 2022, 51, 119-133.	2.2	16
31	Benchmarks of Biomembrane Force Probe Spring Constant Models. Biophysical Journal, 2017, 113, 2842-2845.	0.5	14
32	Two-Dimensional Analysis of Cross-Junctional Molecular Interaction by Force Probes. Methods in Molecular Biology, 2017, 1584, 231-258.	0.9	12
33	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
34	Emerging Microfluidic Approaches for Platelet Mechanobiology and Interplay With Circulatory Systems. Frontiers in Cardiovascular Medicine, 2021, 8, 766513.	2.4	11
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	Dynamic Force Spectroscopy Analysis on the Redox States of Protein Disulphide Bonds. Methods in Molecular Biology, 2019, 1967, 115-131.	0.9	9
40	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
41	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
42	Straight Channel Microfluidic Chips for the Study of Platelet Adhesion under Flow. Bio-protocol, 2019, 9, e3195.	0.4	7
43	Microfluidic post method for 3-dimensional modeling of plateletâ€“leukocyte interactions. Analyst, The, 2022, 147, 1222-1235.	3.5	7
44	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
45	Platelet Mechanobiology Inspired Microdevices: From Hematological Function Tests to Disease and Drug Screening. Frontiers in Pharmacology, 2021, 12, 779753.	3.5	6
46	Apolipoprotein Î‘-IV Is a Novel Ligand of Platelet Î±IIbÎ²3 Integrin and an Endogenous Thrombosis Inhibitor: Measurement of Single-Molecular Interactions By Biomembrane Force Probe. Blood, 2014, 124, 92-92.	1.4	3
47	Molecular Spring Constant Analysis by Biomembrane Force Probe Spectroscopy. Journal of Visualized Experiments, 2021, , .	0.3	2
48	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
49	An HMM-based algorithm for evaluating rates of receptor-ligand binding kinetics from thermal fluctuation data. Bioinformatics, 2013, 29, 1511-1518.	4.1	1
50	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
51	Mechano-Redox Control of Integrins in Thromboinflammation. Antioxidants and Redox Signaling, 2022, 37, 1072-1093.	5.4	1
52	Platelet receptor-mediated mechanosensing and thrombosis. , 2018, , 285-304.		0
53	Distinctive Mechano-sensitivity of Focal Adhesion Integrins Î±5Î²1 and Î±VÎ²3 in Conformational Changes. Biophysical Journal, 2020, 118, 162a.	0.5	0
54	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

#	Article	IF	Citations
55	Identification and Characterization of Integrin alphaIIbbeta3 Intermediate Affinity State Induced By Gpibalpha Mechanotransduction. Blood, 2015, 126, 237-237.	1.4	0
56	Diabetes and Thrombosis: The Dark Side of the Force. MCB Molecular and Cellular Biomechanics, 2019, 16, 96-96.	0.7	0