Yunfeng Chen

List of Publications by Year
in descending order

38	1,751	393982	454577
papers	citations	19 h-index	30 g-index

40	40	40	2529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical regulation of a molecular clutch defines force transmission and transduction in response to matrix rigidity. Nature Cell Biology, 2016, 18, 540-548.	4.6	582
2	Receptor-mediated cell mechanosensing. Molecular Biology of the Cell, 2017, 28, 3134-3155.	0.9	168
3	An integrin Î±IIbÎ²3 intermediate affinity state mediates biomechanical platelet aggregation. Nature Materials, 2019, 18, 760-769.	13.3	94
4	Dynamic catch of a Thy-1â€“Î±5Î²1+syndecan-4 trimolecular complex. Nature Communications, 2014, 5, 4886.	5.8	85
5	Apolipoprotein A-IV binds Î±IIbÎ²3 integrin and inhibits thrombosis. Nature Communications, 2018, 9, 3608.	5.8	75
6	Force regulated conformational change of integrin Î±VÎ²3. Matrix Biology, 2017, 60-61, 70-85.	1.5	66
7	Cooperative unfolding of distinctive mechanoreceptor domains transduces force into signals. ELife, 2016, 5, .	2.8	66
8	A Lupus-Associated Mac-1 Variant Has Defects in Integrin Allostery and Interaction with Ligands under Force. Cell Reports, 2015, 10, 1655-1664.	2.9	62
9	Shear-induced integrin signaling in platelet phosphatidylserine exposure, microvesicle release, and coagulation. Blood, 2018, 132, 533-543.	0.6	52
10	The integrin PSI domain has an endogenous thiol isomerase function and is a novel target for antiplatelet therapy. Blood, 2017, 129, 1840-1854.	0.6	48
11	Neutrophil FcÎ³RIIA promotes IgG-mediated glomerular neutrophil capture via Abl/Src kinases. Journal of Clinical Investigation, 2017, 127, 3810-3826.	3.9	48
12	Von Willebrand factor-A1 domain binds platelet glycoprotein Ibα in multiple states with distinctive force-dependent dissociation kinetics. Thrombosis Research, 2015, 136, 606-612.	0.8	46
13	Cis interaction between sialylated FcÎ³RIIA and the Î±I-domain of Mac-1 limits antibody-mediated neutrophil recruitment. Nature Communications, 2018, 9, 5058.	5.8	43
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.	0.2	39
15	Compression force sensing regulates integrin Î±IIbÎ²3 adhesive function on diabetic platelets. Nature Communications, 2018, 9, 1087.	5.8	39
16	Force-Induced Unfolding of Leucine-Rich Repeats of Glycoprotein Ibα Strengthens Ligand Interaction. Biophysical Journal, 2015, 109, 1781-1784.	0.2	34
17	Dual Biomembrane Force Probe enables single-cell mechanical analysis of signal crosstalk between multiple molecular species. Scientific Reports, 2017, 7, 14185.	1.6	33
18	Dynamic bonds and their roles in mechanosensing. Current Opinion in Chemical Biology, 2019, 53, 88-97.	2.8	31

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19	14-3-3 proteins in platelet biology and glycoprotein Ib-IX signaling. Blood, 2018, 131, 2436-2448.	0.6	30
20	Galectin 3 enhances platelet aggregation and thrombosis via Dectin-1 activation: a translational study. European Heart Journal, 2022, 43, 3556-3574.	1.0	19
21	Tensile and compressive force regulation on cell mechanosensing. Biophysical Reviews, 2019, 11, 311-318.	1.5	18
22	Biomechanical thrombosis: the dark side of force and dawn of mechano-medicine. Stroke and Vascular Neurology, 2020, 5, 185-197.	1.5	17
23	Two-Dimensional Analysis of Cross-Junctional Molecular Interaction by Force Probes. Methods in Molecular Biology, 2017, 1584, 231-258.	0.4	12
24	Humanized GPIbÎ±â€“von Willebrand factor interaction in the mouse. Blood Advances, 2018, 2, 2522-2532.	2.5	12
25	Fast Force Loading Disrupts Molecular Binding Stability in Human and Mouse Cell Adhesions. MCB Molecular and Cellular Biomechanics, 2019, 16, 211-223.	0.3	10
26	Microfluidic auto-alignment of protein patterns for dissecting multi-receptor crosstalk in platelets. Lab on A Chip, 2018, 18, 2966-2974.	3.1	6
27	Platelet Mechanobiology Inspired Microdevices: From Hematological Function Tests to Disease and Drug Screening. Frontiers in Pharmacology, 2021, 12, 779753.	1.6	6
28	Generation, Transmission, and Regulation of Mechanical Forces in Embryonic Morphogenesis. Small, 2021, , 2103466.	5.2	5
29	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.	0.6	3
30	Fast Force Loading Disrupts Molecular Bond Stability in Human and Mouse Cell Adhesions. MCB Molecular and Cellular Biomechanics, 2019, 16, 97-97.	0.3	1
31	Dual Biomembrane Force Probe Enables Single-Cell Mechanical Analysis of Signal Crosstalk between Multiple Molecular Species. Biophysical Journal, 2018, 114, 322a-323a.	0.2	0
32	Platelet receptor-mediated mechanosensing and thrombosis. , 2018, , 285-304.		0
33	Distinctive Mechano-sensitivity of Focal Adhesion Integrins Î±5Î²1 and Î±VÎ²3 in Conformational Changes. Biophysical Journal, 2020, 118, 162a.	0.2	0
34	One-Step Synthesis of Ribonucleases Aâ€“Ag Nanocomposites as Fluorescent Nanodrugs for in vivo Delivery. Nano, 2021, 16, .	0.5	0
35	The Study of GPIb-VWF Mediated Early-Stage Platelet Activation Triggering On a Single Cell. Blood, 2012, 120, 1069-1069.	0.6	0
36	Force-Induced Cooperative Unfolding of Two Distinctive Domains in a Single Gpibalpha Molecule. Blood, 2015, 126, 3449-3449.	0.6	0

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37	Identification and Characterization of Integrin alphaIIbbeta3 Intermediate Affinity State Induced By Gpibalpha Mechanotransduction. Blood, 2015, 126, 237-237.	0.6	0
38	Diabetes and Thrombosis: The Dark Side of the Force. MCB Molecular and Cellular Biomechanics, 2019, 16, 96-96.	0.3	0