

Xiaohui Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,268

citations

22

h-index

47

g-index

69

ext. papers

2,681

ext. citations

6

avg, IF

4.86

L-index

#	Paper	IF	Citations
66	Binding of Human ACE2 and RBD of Omicron Enhanced by Unique Interaction Patterns Among SARS-CoV-2 Variants of Concern. 2022 ,		2
65	Differential Interactions between Human ACE2 and Spike RBD of SARS-CoV-2 Variants of Concern. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	20
64	Length of mucin-like domains enhances cell-Ebola virus adhesion by increasing binding probability. <i>Biophysical Journal</i> , 2021 , 120, 781-790	2.9	0
63	Biomechanical characterization of SARS-CoV-2 spike RBD and human ACE2 protein-protein interaction. <i>Biophysical Journal</i> , 2021 , 120, 1011-1019	2.9	26
62	Activation of von Willebrand factor via mechanical unfolding of its discontinuous autoinhibitory module. <i>Nature Communications</i> , 2021 , 12, 2360	17.4	6
61	Predicting pathological von Willebrand factor unraveling in elongational flow. <i>Biophysical Journal</i> , 2021 , 120, 1903-1915	2.9	5
60	Recent Developments in Nanomaterial-Based Shear-Sensitive Drug Delivery Systems. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002196	10.1	5
59	Differential Interactions Between Human ACE2 and Spike RBD of SARS-CoV-2 Variants of Concern 2021 ,		16
58	Desialylation of -glycans on glycoprotein Ib α drives receptor signaling and platelet clearance. <i>Haematologica</i> , 2021 , 106, 220-229	6.6	13
57	Structure, Dynamics, and Interactions of GPI-Anchored Human Glypican-1 with Heparan Sulfates in a Membrane. <i>Glycobiology</i> , 2021 , 31, 593-602	5.8	1
56	Blocking von Willebrand factor free thiols inhibits binding to collagen under high and pathological shear stress. <i>Journal of Thrombosis and Haemostasis</i> , 2021 , 19, 358-369	15.4	1
55	Biophysical characterization of lynx-nicotinic receptor interactions using atomic force microscopy.. <i>FASEB BioAdvances</i> , 2021 , 3, 1034-1042	2.8	0
54	Unraveling Kinetics of Collapsed Polymers in Extensional Flow. <i>Macromolecules</i> , 2021 , 54, 8259-8269	5.5	1
53	Binding kinetics of liposome conjugated E-selectin and P-selectin glycoprotein ligand-1 measured with atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 207, 112002	6	0
52	Flow-regulated nucleation protrusion theory for collapsed polymers.. <i>Physical Review E</i> , 2021 , 104, 054504	4.4	0
51	Factor VIII binding affects the mechanical unraveling of the A2 domain of von Willebrand factor. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 2169-2176	15.4	1
50	Dynamics and Interactions of GPI-Linked lynx1 Protein with/without Nicotinic Acetylcholine Receptor in Membrane Bilayers. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4017-4025	3.4	4

49	Characterizing Single-Molecule Conformational Changes Under Shear Flow with Fluorescence Microscopy. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
48	Binding of GPIIb/IIIa VWF A2 Domain Alters Mechanical Unraveling of the A2 Domain. <i>Blood</i> , 2020 , 136, 24-25	2.2	
47	Biomechanical Characterization of SARS-CoV-2 Spike RBD and Human ACE2 Protein-Protein Interaction 2020 ,		6
46	Peak force visible microscopy. <i>Soft Matter</i> , 2020 , 16, 8372-8379	3.6	0
45	Adhesive contact between cylindrical (Ebola) and spherical (SARS-CoV-2) viral particles and a cell membrane. <i>Mechanics of Soft Materials</i> , 2020 , 2, 11	2.1	1
44	A mechano-reactive coarse-grained model of the blood-clotting agent von Willebrand factor. <i>Journal of Chemical Physics</i> , 2019 , 151, 124905	3.9	7
43	Biomechanical characterization of TIM protein-mediated Ebola virus-host cell adhesion. <i>Scientific Reports</i> , 2019 , 9, 267	4.9	21
42	Platelet mechanosensing axis revealed. <i>Nature Materials</i> , 2019 , 18, 661-662	27	1
41	Force-Regulated Refolding of the Mechanosensory Domain in the Platelet Glycoprotein Ib-IX Complex. <i>Biophysical Journal</i> , 2019 , 116, 1960-1969	2.9	13
40	Shear-Induced Extensional Response Behaviors of Tethered von Willebrand Factor. <i>Biophysical Journal</i> , 2019 , 116, 2092-2102	2.9	8
39	Calcium-Mediated Biophysical Binding of <i>Cryptosporidium parvum</i> Oocysts to Surfaces Is Sensitive to Oocyst Age. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	5
38	Binding of Factor VIII to D'D3 and A2 Domains of Von Willebrand Factor Facilitates Mechanical Unraveling of the A2 Domain. <i>Blood</i> , 2019 , 134, 95-95	2.2	
37	Endothelial cell dysfunction and glycocalyx - A vicious circle. <i>Matrix Biology</i> , 2018 , 71-72, 421-431	11.4	69
36	Coarse-Grain Modeling of Shear-Induced Binding between von Willebrand Factor and Collagen. <i>Biophysical Journal</i> , 2018 , 114, 1816-1829	2.9	4
35	Fc-independent immune thrombocytopenia via mechanomolecular signaling in platelets. <i>Blood</i> , 2018 , 131, 787-796	2.2	39
34	The Role of Endothelial Surface Glycocalyx in Mechanosensing and Transduction. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1097, 1-27	3.6	40
33	Long-ranged Protein-glycan Interactions Stabilize von Willebrand Factor A2 Domain from Mechanical Unfolding. <i>Scientific Reports</i> , 2018 , 8, 16017	4.9	7
32	Integrin $\alpha 7$ switches its ligand specificity via distinct conformer-specific activation. <i>Journal of Cell Biology</i> , 2018 , 217, 2799-2812	7.3	19

31	Low-affinity binding in to P2YR mediates force-dependent integrin activation during hantavirus infection. <i>Molecular Biology of the Cell</i> , 2017 , 28, 2887-2903	3.5	10
30	Dual Regulation of L-Selectin-Mediated Leukocyte Adhesion by Endothelial Surface Glycocalyx. <i>Cellular and Molecular Bioengineering</i> , 2017 , 10, 102-113	3.9	5
29	Platelet clearance via shear-induced unfolding of a membrane mechanoreceptor. <i>Nature Communications</i> , 2016 , 7, 12863	17.4	61
28	Mechanotransduction of the endothelial glycocalyx mediates nitric oxide production through activation of TRP channels. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C846-C853	5.4	42
27	Correlation between in vitro expansion-related cell stiffening and differentiation potential of human mesenchymal stem cells. <i>Differentiation</i> , 2015 , 90, 1-15	3.5	7
26	Identification of a juxtamembrane mechanosensitive domain in the platelet mechanosensor glycoprotein Ib-IX complex. <i>Blood</i> , 2015 , 125, 562-9	2.2	72
25	Development of fragility in relaxor ferroelectrics. <i>Journal of Applied Physics</i> , 2014 , 115, 054106	2.5	3
24	Neuropilin-2 promotes extravasation and metastasis by interacting with endothelial β integrin. <i>Cancer Research</i> , 2013 , 73, 4579-4590	10.1	65
23	A nonconfigurational entropy-loss law for non-Arrhenius relaxation in disordered systems. <i>Journal of Applied Physics</i> , 2013 , 113, 194105	2.5	2
22	Microfluidic Sorting: Exhaustion of Racing Sperm in Nature-Mimicking Microfluidic Channels During Sorting (Small 20/2013). <i>Small</i> , 2013 , 9, 3366-3366	11	
21	MC3T3 preosteoblast differentiation on bone morphogenetic protein-2 peptide ormosils. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10672		10
20	Nanoliter droplet vitrification for oocyte cryopreservation. <i>Nanomedicine</i> , 2012 , 7, 553-64	5.6	21
19	Lensless imaging for simultaneous microfluidic sperm monitoring and sorting. <i>Lab on A Chip</i> , 2011 , 11, 2535-40	7.2	68
18	Emerging technologies in medical applications of minimum volume vitrification. <i>Nanomedicine</i> , 2011 , 6, 1115-29	5.6	45
17	BF0801, a novel adenine derivative, inhibits platelet activation via phosphodiesterase inhibition and P2Y12 antagonism. <i>Thrombosis and Haemostasis</i> , 2010 , 104, 845-57	7	22
16	The tight junction protein, occludin, regulates the directional migration of epithelial cells. <i>Developmental Cell</i> , 2010 , 18, 52-63	10.2	118
15	Structural specializations of A2, a force-sensing domain in the ultralarge vascular protein von Willebrand factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9226-31	11.5	153
14	Mechanoenzymatic cleavage of the ultralarge vascular protein von Willebrand factor. <i>Science</i> , 2009 , 324, 1330-4	33.3	410

13	Atomic Force Microscopy of Protein-Protein Interactions 2009 , 555		10
12	TWEAK-Fn14 pathway inhibition protects the integrity of the neurovascular unit during cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 534-44	7.3	77
11	Tissue-type plasminogen activator and the low-density lipoprotein receptor-related protein mediate cerebral ischemia-induced nuclear factor-kappaB pathway activation. <i>American Journal of Pathology</i> , 2007 , 171, 1281-90	5.8	79
10	Dynamic adhesion of T lymphocytes to endothelial cells revealed by atomic force microscopy. <i>Experimental Biology and Medicine</i> , 2006 , 231, 1306-12	3.7	62
9	Structure-function of MAdCAM-1 revealed by single-molecule force spectroscopy. <i>FASEB Journal</i> , 2006 , 20, LB119	0.9	
8	Molecular basis of the dynamic strength of the sialyl Lewis X--selectin interaction. <i>ChemPhysChem</i> , 2004 , 5, 175-82	3.2	73
7	Molecular basis for the dynamic strength of the integrin alpha4beta1/VCAM-1 interaction. <i>Biophysical Journal</i> , 2004 , 87, 3470-8	2.9	92
6	Atomic force microscopy measurement of leukocyte-endothelial interaction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H359-67	5.2	92
5	Cooperative adhesion of ligand-receptor bonds. <i>Biophysical Chemistry</i> , 2003 , 104, 271-8	3.5	67
4	Probing Single Icam-1/Lfa-1 Interaction under External Force. <i>Scientific World Journal, The</i> , 2002 , 2, 41-42.2		
3	Force spectroscopy of the leukocyte function-associated antigen-1/intercellular adhesion molecule-1 interaction. <i>Biophysical Journal</i> , 2002 , 83, 2270-9	2.9	255
2	Intermolecular Forces of Leukocyte Adhesion Molecules159-168		
1	Adhesive Contact Between Cylindrical (Ebola) and Spherical (SARS-CoV-2) Viral Particles and a Cell Membrane 1		