

Ning Wang

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.

83

papers

7,659

citations

35

h-index

87

g-index

88

ext. papers

8,803

ext. citations

9.1

avg, IF

5.97

L-index

#	Paper	IF	Citations
83	Forces in stem cells and cancer stem cells.. <i>Cells and Development</i> , 2022 , 203776		0
82	LncRNA-targeting bio-scaffold mediates triple immune effects for postoperative colorectal cancer immunotherapy.. <i>Biomaterials</i> , 2022 , 284, 121485	15.6	0
81	Cell Softness Prevents Cytolytic T-cell Killing of Tumor-Repopulating Cells. <i>Cancer Research</i> , 2021 , 81, 476-488	10.1	22
80	Cell softness regulates tumorigenicity and stemness of cancer cells. <i>EMBO Journal</i> , 2021 , 40, e106123	13	24
79	LAP2 α transmits force to upregulate genes via chromatin domain stretching but not compression. <i>Acta Biomaterialia</i> , 2021 ,	10.8	1
78	Effects of forces on chromatin. <i>APL Bioengineering</i> , 2021 , 5, 041503	6.6	5
77	A Novel Anticancer Stem Cell Compound Derived from Pleuromutilin Induced Necroptosis of Melanoma Cells. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 15825-15845	8.3	3
76	Microtissue Geometry and Cell-Generated Forces Drive Patterning of Liver Progenitor Cell Differentiation in 3D. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100223	10.1	1
75	Lutein attenuates excessive lipid accumulation in differentiated 3T3-L1 cells and abdominal adipose tissue of rats by the SIRT1-mediated pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2021 , 133, 105932	5.6	3
74	Cytoskeletal prestress: The cellular hallmark in mechanobiology and mechanomedicine. <i>Cytoskeleton</i> , 2021 , 78, 249-276	2.4	10
73	Germline Mutation of PLCD1 Contributes to Human Multiple Pilomatricomas through Protein Kinase D/Extracellular Signal-Regulated Kinase1/2 Cascade and TRPV6. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 533-544	4.3	2
72	Resveratrol attenuates excessive ethanol exposure-induced β -cell senescence in rats: A critical role for the NAD/SIRT1-p38MAPK/p16 pathway. <i>Journal of Nutritional Biochemistry</i> , 2021 , 89, 108568	6.3	4
71	Interactive effects of serum ferritin and high sensitivity C-reactive protein on diabetes in hypertensive patients. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021 , 68, 126824	4.1	1
70	Resveratrol protects against ethanol-induced impairment of insulin secretion in INS-1 cells through SIRT1-UCP2 axis. <i>Toxicology in Vitro</i> , 2020 , 65, 104808	3.6	13
69	Force-induced gene up-regulation does not follow the weak power law but depends on H3K9 demethylation. <i>Science Advances</i> , 2020 , 6, eaay9095	14.3	25
68	Effects of lutein supplementation on inflammatory biomarkers and metabolic risk factors in adults with central obesity: study protocol for a randomised controlled study. <i>Trials</i> , 2020 , 21, 32	2.8	3
67	1 α ,25-Dihydroxyvitamin D prevents renal oxidative damage via the PARP1/SIRT1/NOX4 pathway in Zucker diabetic fatty rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E343-E356	6	5

66	Stress fiber anisotropy contributes to force-mode dependent chromatin stretching and gene upregulation in living cells. <i>Nature Communications</i> , 2020 , 11, 4902	17.4	17
65	Colorectal Cancer Metastases to Brain or Bone and the Relationship to Primary Tumor Location: a Population-Based Study. <i>Journal of Gastrointestinal Surgery</i> , 2020 , 24, 1833-1842	3.3	19
64	Genome-Wide DNA Methylation Enhances Stemness in the Mechanical Selection of Tumor-Repopulating Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 88	5.8	2
63	Rapid Polymerization of Aromatic Vinyl Monomers to Porous Organic Polymers via Acid Catalysis at Mild Condition. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900168	4.8	2
62	Regulatory networks in mechanotransduction reveal key genes in promoting cancer cell stemness and proliferation. <i>Oncogene</i> , 2019 , 38, 6818-6834	9.2	18
61	Tissue cell differentiation and multicellular evolution via cytoskeletal stiffening in mechanically stressed microenvironments. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 270-274	2	12
60	Visualization of perforin/gasdermin/complement-formed pores in real cell membranes using atomic force microscopy. <i>Cellular and Molecular Immunology</i> , 2019 , 16, 611-620	15.4	25
59	Inhibition of cancer stem cell like cells by a synthetic retinoid. <i>Nature Communications</i> , 2018 , 9, 1406	17.4	30
58	Efficacy of Hydroxy-L-proline (HYP) analogs in the treatment of primary hyperoxaluria in <i>Drosophila Melanogaster</i> . <i>BMC Nephrology</i> , 2018 , 19, 167	2.7	10
57	Cdc42-dependent modulation of rigidity sensing and cell spreading in tumor repopulating cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 500, 557-563	3.4	6
56	A comparison of methods to assess cell mechanical properties. <i>Nature Methods</i> , 2018 , 15, 491-498	21.6	265
55	Oxalate-Degrading Enzyme Recombined Lactic Acid Bacteria Strains Reduce Hyperoxaluria. <i>Urology</i> , 2018 , 113, 253.e1-253.e7	1.6	11
54	Fibrin Stiffness Mediates Dormancy of Tumor-Repopulating Cells via a Cdc42-Driven Tet2 Epigenetic Program. <i>Cancer Research</i> , 2018 , 78, 3926-3937	10.1	45
53	Quantifying compressive forces between living cell layers and within tissues using elastic round microgels. <i>Nature Communications</i> , 2018 , 9, 1878	17.4	60
52	Soft matrices downregulate FAK activity to promote growth of tumor-repopulating cells. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 456-462	3.4	8
51	Combined blockade of Tim-3 and MEK inhibitor enhances the efficacy against melanoma. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 484, 378-384	3.4	11
50	Interfacing 3D magnetic twisting cytometry with confocal fluorescence microscopy to image force responses in living cells. <i>Nature Protocols</i> , 2017 , 12, 1437-1450	18.8	31
49	Review of Cellular Mechanotransduction. <i>Journal Physics D: Applied Physics</i> , 2017 , 50,	3	63

48	Comparison of the efficacy and feasibility of laser enucleation of bladder tumor versus transurethral resection of bladder tumor: a meta-analysis. <i>Lasers in Medical Science</i> , 2017 , 32, 2005-2012 ^{3,1}		8
47	Resveratrol attenuates excessive ethanol exposure induced insulin resistance in rats via improving NAD /NADH ratio. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1700087	5.9	15
46	Regulation of immune-related diseases by multiple factors of chromatin, exosomes, microparticles, vaccines, oxidative stress, dormancy, protein quality control, inflammation and microenvironment: a meeting report of 2017 International Workshop of the Chinese Academy of Medical Sciences (CAMS) Initiative for Innovative Medicine on Tumor Immunology. <i>Acta Pharmaceutica Sinica B</i> , 2017 , 7, 532-540	15.5	3
45	Cellular adhesion: Instant integrin mechanosensing. <i>Nature Materials</i> , 2017 , 16, 1173-1174	27	10
44	Transcription upregulation via force-induced direct stretching of chromatin. <i>Nature Materials</i> , 2016 , 15, 1287-1296	27	326
43	Efficient extravasation of tumor-repopulating cells depends on cell deformability. <i>Scientific Reports</i> , 2016 , 6, 19304	4.9	35
42	Reversing drug resistance of soft tumor-repopulating cells by tumor cell-derived chemotherapeutic microparticles. <i>Cell Research</i> , 2016 , 26, 713-27	24.7	107
41	Upregulation of cytosolic phosphoenolpyruvate carboxykinase is a critical metabolic event in melanoma cells that repopulate tumors. <i>Cancer Research</i> , 2015 , 75, 1191-6	10.1	48
40	Foxp3 gene polymorphisms and haplotypes associate with susceptibility of GravesDisease in Chinese Han population. <i>International Immunopharmacology</i> , 2015 , 25, 425-31	5.8	22
39	Distinct mechanisms regulating mechanical force-induced Ca ²⁺ signals at the plasma membrane and the ER in human MSCs. <i>ELife</i> , 2015 , 4, e04876	8.9	46
38	Matrix softness regulates plasticity of tumour-repopulating cells via H3K9 demethylation and Sox2 expression. <i>Nature Communications</i> , 2014 , 5, 4619	17.4	123
37	Stem cell mechanics: auxetic nuclei. <i>Nature Materials</i> , 2014 , 13, 540-2	27	7
36	TNF- β promoter single nucleotide polymorphisms and haplotypes associate with susceptibility of immune thrombocytopenia in Chinese adults. <i>Human Immunology</i> , 2014 , 75, 980-5	2.3	6
35	Generation of organized germ layers from a single mouse embryonic stem cell. <i>Nature Communications</i> , 2014 , 5, 4000	17.4	76
34	Stem cells go soft: pliant substrate surfaces enhance motor neuron differentiation. <i>Cell Stem Cell</i> , 2014 , 14, 701-3	18	3
33	Overexpression of chemerin was associated with tumor angiogenesis and poor clinical outcome in squamous cell carcinoma of the oral tongue. <i>Clinical Oral Investigations</i> , 2014 , 18, 997-1004	4.2	41
32	Dynamic force-induced direct dissociation of protein complexes in a nuclear body in living cells. <i>Nature Communications</i> , 2012 , 3, 866	17.4	108
31	Soft fibrin gels promote selection and growth of tumorigenic cells. <i>Nature Materials</i> , 2012 , 11, 734-41	27	299

30	Cellular and Molecular Bioengineering: A Tipping Point. <i>Cellular and Molecular Bioengineering</i> , 2012 , 5, 239-253	3.9	1
29	Force via integrins but not E-cadherin decreases Oct3/4 expression in embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 415, 396-400	3.4	29
28	Material properties of the cell dictate stress-induced spreading and differentiation in embryonic stem cells. <i>Nature Materials</i> , 2010 , 9, 82-8	27	441
27	Soft substrates promote homogeneous self-renewal of embryonic stem cells via downregulating cell-matrix tractions. <i>PLoS ONE</i> , 2010 , 5, e15655	3.7	247
26	Vinculin potentiates E-cadherin mechanosensing and is recruited to actin-anchored sites within adherens junctions in a myosin II-dependent manner. <i>Journal of Cell Biology</i> , 2010 , 189, 1107-15	7.3	478
25	Embryonic stem cells do not stiffen on rigid substrates. <i>Biophysical Journal</i> , 2010 , 99, L19-21	2.9	36
24	Electrochemically controlled deconjugation and delivery of single quantum dots into the nucleus of living cells. <i>Small</i> , 2010 , 6, 2109-13	11	16
23	Structural basis of stress concentration in the cytoskeleton. <i>MCB Molecular and Cellular Biomechanics</i> , 2010 , 7, 33-44	1.2	3
22	Rapid activation of Rac GTPase in living cells by force is independent of Src. <i>PLoS ONE</i> , 2009 , 4, e7886	3.7	62
21	Plectin contributes to mechanical properties of living cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C868-77	5.4	35
20	Mechanotransduction at a distance: mechanically coupling the extracellular matrix with the nucleus. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 75-82	48.7	1245
19	Mechanochemical delivery and dynamic tracking of fluorescent quantum dots in the cytoplasm and nucleus of living cells. <i>Nano Letters</i> , 2009 , 9, 2193-8	11.5	111
18	Is cell rheology governed by nonequilibrium-to-equilibrium transition of noncovalent bonds?. <i>Biophysical Journal</i> , 2008 , 95, 5719-27	2.9	28
17	Rapid signal transduction in living cells is a unique feature of mechanotransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6626-31	11.5	335
16	Imaging stress propagation in the cytoplasm of a living cell. <i>Methods in Cell Biology</i> , 2007 , 83, 179-98	1.8	10
15	Long-distance propagation of forces in a cell. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 328, 1133-8	3.4	87
14	Prestress mediates force propagation into the nucleus. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 423-8	3.4	117
13	Mechanical anisotropy of adherent cells probed by a three-dimensional magnetic twisting device. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 287, C1184-91	5.4	115

12	Intracellular stress tomography reveals stress focusing and structural anisotropy in cytoskeleton of living cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C1082-90	5.4	201
11	Micropatterning tractional forces in living cells. <i>Cytoskeleton</i> , 2002 , 52, 97-106		228
10	Mechanics of vimentin intermediate filaments. <i>Journal of Muscle Research and Cell Motility</i> , 2002 , 23, 535-40	3.5	119
9	Cell prestress. II. Contribution of microtubules. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C617-24	5.4	168
8	Cell prestress. I. Stiffness and prestress are closely associated in adherent contractile cells. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C606-16	5.4	522
7	Twisting integrin receptors increases endothelin-1 gene expression in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 280, C1475-84	5.4	165
6	Contribution of intermediate filaments to cell stiffness, stiffening, and growth. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 279, C188-94	5.4	218
5	Invited review: engineering approaches to cytoskeletal mechanics. <i>Journal of Applied Physiology</i> , 2000 , 89, 2085-90	3.7	78
4	Cell mechanics: mechanical response, cell adhesion, and molecular deformation. <i>Annual Review of Biomedical Engineering</i> , 2000 , 2, 189-226	12	306
3	Probing transmembrane mechanical coupling and cytomechanics using magnetic twisting cytometry. <i>Biochemistry and Cell Biology</i> , 1995 , 73, 327-35	3.6	192
2	An aerodynamic valve in the avian primary bronchus. <i>The Journal of Experimental Zoology</i> , 1992 , 262, 441-5		24
1	Microtissue geometry and cell-generated forces drive patterning of liver progenitor cell differentiation in 3D		1