

Ning Wang

List of Publications by Year in descending order

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86
papers

9,741
citations

76326

40
h-index

58581

82
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88
all docs

88
docs citations

88
times ranked

10986
citing authors

#	ARTICLE	IF	CITATIONS
1	LAP2 ^{Î2} transmits force to upregulate genes via chromatin domain stretching but not compression. <i>Acta Biomaterialia</i> , 2023, 163, 326-338.	8.3	8
2	Forces in stem cells and cancer stem cells. <i>Cells and Development</i> , 2022, 170, 203776.	1.5	4
3	LncRNA-targeting bio-scaffold mediates triple immune effects for postoperative colorectal cancer immunotherapy. <i>Biomaterials</i> , 2022, 284, 121485.	11.4	15
4	Cell Softness Prevents Cytolytic T-cell Killing of Tumor-Repopulating Cells. <i>Cancer Research</i> , 2021, 81, 476-488.	0.9	54
5	Germline Mutation of PLCD1 Contributes to Human Multiple Pilomatricomas through Protein Kinase D/Extracellular Signal-Regulated Kinase 1/2 Cascade and TRPV6. <i>Journal of Investigative Dermatology</i> , 2021, 141, 533-544.	0.7	5
6	Resveratrol attenuates excessive ethanol exposure-induced Î2-cell senescence in rats: A critical role for the NAD ⁺ /SIRT1-p38MAPK/p16 pathway. <i>Journal of Nutritional Biochemistry</i> , 2021, 89, 108568.	4.2	15
7	Microtissue Geometry and Cell-Generated Forces Drive Patterning of Liver Progenitor Cell Differentiation in 3D. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100223.	7.6	11
8	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.	2.8	15
9	Cytoskeletal prestress: The cellular hallmark in mechanobiology and mechanomedicine. <i>Cytoskeleton</i> , 2021, 78, 249-276.	2.0	28
10	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.	3.0	3
11	Cell softness regulates tumorigenicity and stemness of cancer cells. <i>EMBO Journal</i> , 2021, 40, e106123.	7.8	77
12	Effects of forces on chromatin. <i>APL Bioengineering</i> , 2021, 5, 041503.	6.2	17
13	A Novel Anticancer Stem Cell Compound Derived from Pleuromutilin Induced Necroptosis of Melanoma Cells. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15825-15845.	6.4	11
14	Prescribed Performance Tracking Control of Nonlinear Systems with Unknown Control Directions. , 2021, , .		0
15	Performance Analysis of the IEEE 802.11p EDCA for Vehicular Networks in Imperfect Channels. , 2021, , .		3
16	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.	1.7	32
17	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.	1.6	6
18	1Î±,25-Dihydroxyvitamin D ₃ 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.	3.5	13

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19	Stress fiber anisotropy contributes to force-mode dependent chromatin stretching and gene upregulation in living cells. <i>Nature Communications</i> , 2020, 11, 4902.	12.8	36
20	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.	2.4	20
21	Force-induced gene up-regulation does not follow the weak power law but depends on H3K9 demethylation. <i>Science Advances</i> , 2020, 6, eaay9095.	10.3	47
22	Genome-Wide DNA Methylation Enhances Stemness in the Mechanical Selection of Tumor-Repopulating Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 88.	4.1	10
23	Regulatory networks in mechanotransduction reveal key genes in promoting cancer cell stemness and proliferation. <i>Oncogene</i> , 2019, 38, 6818-6834.	5.9	34
24	Rapid Polymerization of Aromatic Vinyl Monomers to Porous Organic Polymers via Acid Catalysis at Mild Condition. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900168.	3.9	4
25	Tissue cell differentiation and multicellular evolution via cytoskeletal stiffening in mechanically stressed microenvironments. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 270-274.	3.4	18
26	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.	10.5	35
27	Inhibition of cancer stem cell like cells by a synthetic retinoid. <i>Nature Communications</i> , 2018, 9, 1406.	12.8	40
28	Oxalate-Degrading Enzyme Recombined Lactic Acid Bacteria Strains Reduce Hyperoxaluria. <i>Urology</i> , 2018, 113, 253.e1-253.e7.	1.0	16
29	Fibrin Stiffness Mediates Dormancy of Tumor-Repopulating Cells via a Cdc42-Driven Tet2 Epigenetic Program. <i>Cancer Research</i> , 2018, 78, 3926-3937.	0.9	74
30	Quantifying compressive forces between living cell layers and within tissues using elastic round microgels. <i>Nature Communications</i> , 2018, 9, 1878.	12.8	91
31	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.	1.8	13
32	Cdc42-dependent modulation of rigidity sensing and cell spreading in tumor repopulating cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 557-563.	2.1	9
33	A comparison of methods to assess cell mechanical properties. <i>Nature Methods</i> , 2018, 15, 491-498.	19.0	448
34	Soft matrices downregulate FAK activity to promote growth of tumor-repopulating cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 456-462.	2.1	11
35	Combined blockade of Tim-3 and MEK inhibitor enhances the efficacy against melanoma. <i>Biochemical and Biophysical Research Communications</i> , 2017, 484, 378-384.	2.1	21
36	Interfacing 3D magnetic twisting cytometry with confocal fluorescence microscopy to image force responses in living cells. <i>Nature Protocols</i> , 2017, 12, 1437-1450.	12.0	42

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37	Review of cellular mechanotransduction. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 233002.	2.8	104
38	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.	2.1	14
39	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.	3.3	23
40	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.	12.0	3
41	Instant integrin mechanosensing. <i>Nature Materials</i> , 2017, 16, 1173-1174.	27.5	17
42	Reversing drug resistance of soft tumor-repopulating cells by tumor cell-derived chemotherapeutic microparticles. <i>Cell Research</i> , 2016, 26, 713-727.	12.0	183
43	Transcription upregulation via force-induced direct stretching of chromatin. <i>Nature Materials</i> , 2016, 15, 1287-1296.	27.5	458
44	Efficient extravasation of tumor-repopulating cells depends on cell deformability. <i>Scientific Reports</i> , 2016, 6, 19304.	3.3	46
45	Upregulation of Cytosolic Phosphoenolpyruvate Carboxykinase Is a Critical Metabolic Event in Melanoma Cells That Repopulate Tumors. <i>Cancer Research</i> , 2015, 75, 1191-1196.	0.9	69
46	Foxp3 gene polymorphisms and haplotypes associate with susceptibility of Graves' disease in Chinese Han population. <i>International Immunopharmacology</i> , 2015, 25, 425-431.	3.8	33
47	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.	6.0	90
48	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.	3.0	56
49	Matrix softness regulates plasticity of tumour-repopulating cells via H3K9 demethylation and Sox2 expression. <i>Nature Communications</i> , 2014, 5, 4619.	12.8	162
50	Auxetic nuclei. <i>Nature Materials</i> , 2014, 13, 540-542.	27.5	15
51	TNF- α promoter single nucleotide polymorphisms and haplotypes associate with susceptibility of immune thrombocytopenia in Chinese adults. <i>Human Immunology</i> , 2014, 75, 980-985.	2.4	10
52	Generation of organized germ layers from a single mouse embryonic stem cell. <i>Nature Communications</i> , 2014, 5, 4000.	12.8	104
53	Stem Cells Go Soft: Pliant Substrate Surfaces Enhance Motor Neuron Differentiation. <i>Cell Stem Cell</i> , 2014, 14, 701-703.	11.1	3
54	Dynamic force-induced direct dissociation of protein complexes in a nuclear body in living cells. <i>Nature Communications</i> , 2012, 3, 866.	12.8	124

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55	Soft fibrin gels promote selection and growth of tumorigenic cells. <i>Nature Materials</i> , 2012, 11, 734-741.	27.5	384
56	Cellular and Molecular Bioengineering: A Tipping Point. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 239-253.	2.1	3
57	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.	2.1	34
58	Electrochemically Controlled Deconjugation and Delivery of Single Quantum Dots into the Nucleus of Living Cells. <i>Small</i> , 2010, 6, 2109-2113.	10.0	17
59	Material properties of the cell dictate stress-induced spreading and differentiation in embryonic stem cells. <i>Nature Materials</i> , 2010, 9, 82-88.	27.5	506
60	Soft Substrates Promote Homogeneous Self-Renewal of Embryonic Stem Cells via Downregulating Cell-Matrix Traction. <i>PLoS ONE</i> , 2010, 5, e15655.	2.5	286
61	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, 1107-1115.	5.2	569
62	Embryonic Stem Cells Do Not Stiffen on Rigid Substrates. <i>Biophysical Journal</i> , 2010, 99, L19-L21.	0.5	43
63	Structural basis of stress concentration in the cytoskeleton. <i>MCB Molecular and Cellular Biomechanics</i> , 2010, 7, 33-44.	0.7	3
64	Rapid Activation of Rac GTPase in Living Cells by Force Is Independent of Src. <i>PLoS ONE</i> , 2009, 4, e7886.	2.5	73
65	Plectin contributes to mechanical properties of living cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C868-C877.	4.6	45
66	Mechanotransduction at a distance: mechanically coupling the extracellular matrix with the nucleus. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 75-82.	37.0	1,538
67	Mechanochemical Delivery and Dynamic Tracking of Fluorescent Quantum Dots in the Cytoplasm and Nucleus of Living Cells. <i>Nano Letters</i> , 2009, 9, 2193-2198.	9.1	119
68	Is Cell Rheology Governed by Nonequilibrium-to-Equilibrium Transition of Noncovalent Bonds?. <i>Biophysical Journal</i> , 2008, 95, 5719-5727.	0.5	30
69	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, 6626-6631.	7.1	383
70	Imaging Stress Propagation in the Cytoplasm of a Living Cell. <i>Methods in Cell Biology</i> , 2007, 83, 179-198.	1.1	10
71	Long-distance propagation of forces in a cell. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 1133-1138.	2.1	103
72	Prestress mediates force propagation into the nucleus. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 423-428.	2.1	134

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73	Mechanical anisotropy of adherent cells probed by a three-dimensional magnetic twisting device. American Journal of Physiology - Cell Physiology, 2004, 287, C1184-C1191.	4.6	125
74	Intracellular stress tomography reveals stress focusing and structural anisotropy in cytoskeleton of living cells. American Journal of Physiology - Cell Physiology, 2003, 285, C1082-C1090.	4.6	225
75	Cell prestress. II. Contribution of microtubules. American Journal of Physiology - Cell Physiology, 2002, 282, C617-C624.	4.6	190
76	Cell prestress. I. Stiffness and prestress are closely associated in adherent contractile cells. American Journal of Physiology - Cell Physiology, 2002, 282, C606-C616.	4.6	591
77	Micropatterning tractional forces in living cells. Cytoskeleton, 2002, 52, 97-106.	4.4	248
78	Mechanics of vimentin intermediate filaments. Journal of Muscle Research and Cell Motility, 2002, 23, 535-540.	2.0	142
79	Twisting integrin receptors increases endothelin-1 gene expression in endothelial cells. American Journal of Physiology - Cell Physiology, 2001, 280, C1475-C1484.	4.6	178
80	Contribution of intermediate filaments to cell stiffness, stiffening, and growth. American Journal of Physiology - Cell Physiology, 2000, 279, C188-C194.	4.6	261
81	Invited Review: Engineering approaches to cytoskeletal mechanics. Journal of Applied Physiology, 2000, 89, 2085-2090.	2.5	89
82	Cell Mechanics: Mechanical Response, Cell Adhesion, and Molecular Deformation. Annual Review of Biomedical Engineering, 2000, 2, 189-226.	12.3	365
83	Probing transmembrane mechanical coupling and cytomechanics using magnetic twisting cytometry. Biochemistry and Cell Biology, 1995, 73, 327-335.	2.0	213
84	An aerodynamic valve in the avian primary bronchus. The Journal of Experimental Zoology, 1992, 262, 441-445.	1.4	33
85	Displacement field of the cytoskeleton in response to a local load. , 0, , .		0
86	Cell Softness Prevents Cytolytic T Cell Killing of Tumor-Repopulating Cells. SSRN Electronic Journal, 0, , .	0.4	0