

Jennifer H Shin

List of Publications by Citations

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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.

81
papers

2,712
citations

23
h-index

51
g-index

94
ext. papers

3,090
ext. citations

4.9
avg, IF

4.7
L-index

#	Paper	IF	Citations
81	Elastic behavior of cross-linked and bundled actin networks. <i>Science</i> , 2004 , 304, 1301-5	33.3	933
80	Colloid surface chemistry critically affects multiple particle tracking measurements of biomaterials. <i>Biophysical Journal</i> , 2004 , 86, 4004-14	2.9	208
79	Relating microstructure to rheology of a bundled and cross-linked F-actin network in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9636-41	11.5	169
78	Scaling of F-actin network rheology to probe single filament elasticity and dynamics. <i>Physical Review Letters</i> , 2004 , 93, 188102	7.4	140
77	Interleukin-17A inhibits adipocyte differentiation in human mesenchymal stem cells and regulates pro-inflammatory responses in adipocytes. <i>Biochemical Pharmacology</i> , 2009 , 77, 1835-44	6	102
76	Cellular Contraction and Polarization Drive Collective Cellular Motion. <i>Biophysical Journal</i> , 2016 , 110, 2729-2738	2.9	95
75	Nanowire-integrated microfluidic devices for facile and reagent-free mechanical cell lysis. <i>Lab on A Chip</i> , 2012 , 12, 2914-21	7.2	60
74	Differential responses of human liver cancer and normal cells to atmospheric pressure plasma. <i>Applied Physics Letters</i> , 2011 , 99, 063701	3.4	60
73	Three-Dimensional Network Photonic Crystals via Cyclic Size Reduction/ Infiltration of Sea Urchin Exoskeleton. <i>Advanced Materials</i> , 2004 , 16, 1091-1094	24	56
72	Acoustothermal heating of polydimethylsiloxane microfluidic system. <i>Scientific Reports</i> , 2015 , 5, 11851	4.9	54
71	Bending stiffness of a crystalline actin bundle. <i>Journal of Molecular Biology</i> , 2004 , 337, 255-61	6.5	53
70	Islet-like organoids derived from human pluripotent stem cells efficiently function in the glucose responsiveness in vitro and in vivo. <i>Scientific Reports</i> , 2016 , 6, 35145	4.9	51
69	A sorting strategy for <i>C. elegans</i> based on size-dependent motility and electrotaxis in a micro-structured channel. <i>Lab on A Chip</i> , 2012 , 12, 4128-34	7.2	43
68	Shape memory alloy-based small crawling robots inspired by <i>C. elegans</i> . <i>Bioinspiration and Biomimetics</i> , 2011 , 6, 046002	2.6	43
67	Heparan Sulfate Regrowth Profiles Under Laminar Shear Flow Following Enzymatic Degradation. <i>Cellular and Molecular Bioengineering</i> , 2013 , 6, 160-174	3.9	40
66	Plasma effects on subcellular structures. <i>Applied Physics Letters</i> , 2010 , 96, 101501	3.4	34
65	ROCK suppression promotes differentiation and expansion of endothelial cells from embryonic stem cell-derived Flk1(+) mesodermal precursor cells. <i>Blood</i> , 2012 , 120, 2733-44	2.2	32

64	Collaborative effects of electric field and fluid shear stress on fibroblast migration. <i>Lab on A Chip</i> , 2013 , 13, 1602-11	7.2	27
63	A novel microfluidic co-culture system for investigation of bacterial cancer targeting. <i>Lab on A Chip</i> , 2013 , 13, 3033-40	7.2	26
62	Human endothelial colony forming cells from adult peripheral blood have enhanced sprouting angiogenic potential through up-regulating VEGFR2 signaling. <i>International Journal of Cardiology</i> , 2015 , 197, 33-43	3.2	25
61	Electric field-induced migration and intercellular stress alignment in a collective epithelial monolayer. <i>Molecular Biology of the Cell</i> , 2018 , 29, 2292-2302	3.5	24
60	Sphingosylphosphorylcholine down-regulates filaggrin gene transcription through NOX5-based NADPH oxidase and cyclooxygenase-2 in human keratinocytes. <i>Biochemical Pharmacology</i> , 2010 , 80, 95-103	6	24
59	Non-thermal gas plasma-induced endoplasmic reticulum stress mediates apoptosis in human colon cancer cells. <i>Oncology Reports</i> , 2016 , 36, 2268-74	3.5	24
58	The shallow turn of a worm. <i>Journal of Experimental Biology</i> , 2011 , 214, 1554-9	3	20
57	Stored elastic energy powers the 60-microm extension of the <i>Limulus polyphemus</i> sperm actin bundle. <i>Journal of Cell Biology</i> , 2003 , 162, 1183-8	7.3	20
56	Promotion of Myogenic Maturation by Timely Application of Electric Field Along the Topographical Alignment. <i>Tissue Engineering - Part A</i> , 2018 , 24, 752-760	3.9	19
55	Force of an actin spring. <i>Biophysical Journal</i> , 2007 , 92, 3729-33	2.9	19
54	Focal Adhesion Assembly Induces Phenotypic Changes and Dedifferentiation in Chondrocytes. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1822-31	7	19
53	Characterization of cellular elastic modulus using structure based double layer model. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 453-62	3.1	16
52	Non-thermal dielectric-barrier discharge plasma damages human keratinocytes by inducing oxidative stress. <i>International Journal of Molecular Medicine</i> , 2016 , 37, 29-38	4.4	15
51	RF plasma based selective modification of hydrophilic regions on super hydrophobic surface. <i>Applied Surface Science</i> , 2017 , 394, 543-553	6.7	15
50	Efficient nematode swimming in a shear thinning colloidal suspension. <i>Soft Matter</i> , 2016 , 12, 1892-7	3.6	14
49	Stretchable ECM Patch Enhances Stem Cell Delivery for Post-MI Cardiovascular Repair. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900593	10.1	14
48	Suppression of angiogenesis by atmospheric pressure plasma in human aortic endothelial cells. <i>Applied Physics Letters</i> , 2014 , 104, 133701	3.4	14
47	Physicochemically Tuned Myofibroblasts for Wound Healing Strategy. <i>Scientific Reports</i> , 2019 , 9, 16070	4.9	14

46	Tensile stimuli increase nerve growth factor in human dermal fibroblasts independent of tension-induced TGF β production. <i>Experimental Dermatology</i> , 2013 , 22, 72-4	4	12
45	Super-Resolution Three-Dimensional Imaging of Actin Filaments in Cultured Cells and the Brain Expansion Microscopy. <i>ACS Nano</i> , 2020 , 14, 14999-15010	16.7	11
44	Inhibition of Rho-Associated Protein Kinase Increases the Angiogenic Potential of Mesenchymal Stem Cell Aggregates via Paracrine Effects. <i>Tissue Engineering - Part A</i> , 2016 , 22, 233-43	3.9	10
43	Regulation of pigmentation by substrate elasticity in normal human melanocytes and melanotic MNT1 human melanoma cells. <i>Experimental Dermatology</i> , 2014 , 23, 172-7	4	10
42	The nesprin-cytoskeleton interface probed directly on single nuclei is a mechanically rich system. <i>Nucleus</i> , 2017 , 8, 534-547	3.9	10
41	Homogenizing cellular tension by hepatocyte growth factor in expanding epithelial monolayer. <i>Scientific Reports</i> , 2017 , 8, 45844	4.9	10
40	Recent advances in biological uses of traction force microscopy. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1401-1412	1.7	9
39	Photo-protective effect of americanin B against ultraviolet B-induced damage in cultured human keratinocytes. <i>Environmental Toxicology and Pharmacology</i> , 2014 , 38, 891-900	5.8	9
38	Hierarchical multilayer assembly of an ordered nanofibrous scaffold via thermal fusion bonding. <i>Biofabrication</i> , 2014 , 6, 024107	10.5	9
37	Ultrasound-mediated intracellular delivery of fluorescent dyes and DNA into microalgal cells. <i>Algal Research</i> , 2016 , 15, 210-216	5	8
36	Comparative study on the differential mechanical properties of human liver cancer and normal cells. <i>Animal Cells and Systems</i> , 2013 , 17, 170-178	2.3	7
35	Matrix stiffness induces epithelial mesenchymal transition phenotypes of human epidermal keratinocytes on collagen coated two dimensional cell culture. <i>Biomedical Engineering Letters</i> , 2015 , 5, 194-202	3.6	7
34	Calcium regulation of an actin spring. <i>Biophysical Journal</i> , 2009 , 97, 1125-9	2.9	6
33	Isorhamnetin Protects Human Keratinocytes against Ultraviolet B-Induced Cell Damage. <i>Biomolecules and Therapeutics</i> , 2015 , 23, 357-66	4.2	6
32	Therapeutic Uses of Atmospheric Pressure Plasma: Cancer and Wound. <i>Biosystems and Biorobotics</i> , 2016 , 357-385	0.2	5
31	Traction microscopy with integrated microfluidics: responses of the multi-cellular island to gradients of HGF. <i>Lab on A Chip</i> , 2019 , 19, 1579-1588	7.2	5
30	Three-Dimensional Spheroid Culture on Polymer-Coated Surface Potentiate Stem Cell Functions via Enhanced Cell-Extracellular Matrix Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2240-2250	5.5	5
29	Upstream mechanotaxis behavior of endothelial cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2106-10	0.9	5

28	Vimentin intermediate filaments and filamentous actin form unexpected interpenetrating networks that redefine the cell cortex.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2115217119	11.5	5
27	Exposure of keratinocytes to non-thermal dielectric barrier discharge plasma increases the level of 8-oxoguanine via inhibition of its repair enzyme. <i>Molecular Medicine Reports</i> , 2017 , 16, 6870-6875	2.9	4
26	Structural dynamics of an actin spring. <i>Biophysical Journal</i> , 2011 , 100, 839-44	2.9	4
25	In situ viscoelastic properties of insoluble and porous polysaccharide biopolymer dextran produced by <i>Leuconostoc mesenteroides</i> using particle-tracking microrheology. <i>Geomechanics and Engineering</i> , 2017 , 12, 849-862		4
24	Aging Donor-Derived Human Mesenchymal Stem Cells Exhibit Reduced Reactive Oxygen Species Loads and Increased Differentiation Potential Following Serial Expansion on a PEG-PCL Copolymer Substrate. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	3
23	Effect of Keratinocytes on Myofibroblasts in Hypertrophic Scars. <i>Aesthetic Plastic Surgery</i> , 2019 , 43, 1371-1380	3	3
22	Remodeling of Adhesion Network within Cancer Spheroids via Cell-Polymer Interaction. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5632-5644	5.5	3
21	Role of atmospheric pressure plasma (APP) in wound healing: APP-induced antifibrotic process in human dermal fibroblasts. <i>Experimental Dermatology</i> , 2016 , 25, 159-61	4	2
20	Enriching neural stem cell and anti-inflammatory glial phenotypes with electrical stimulation after traumatic brain injury in male rats. <i>Journal of Neuroscience Research</i> , 2021 , 99, 1864-1884	4.4	2
19	Surface Hydrophobicity Modulates the Key Characteristics of Cancer Spheroids through the Interaction with the Adsorbed Proteins. <i>Advanced Functional Materials</i> , 2021 , 31, 2100775	15.6	2
18	Effects of minimal exposures to atmospheric pressure plasma on the activity of <i>Salmonella Typhimurium</i> : Deactivation of bacterial motility and suppression of host-cell invasion. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 605, 67-75	4.1	2
17	Electrospun Microvasculature for Rapid Vascular Network Restoration. <i>Tissue Engineering and Regenerative Medicine</i> , 2021 , 18, 89-97	4.5	2
16	Physical analysis reveals distinct responses of human bronchial epithelial cells to guanidine and isothiazolinone biocides. <i>Toxicology and Applied Pharmacology</i> , 2021 , 424, 115589	4.6	2
15	Development of a Tensile Cell Stimulator to Study the Effects of Uniaxial Tensile Stress on Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2009 , 33, 629-636	1	1
14	Reversible Thermal Gradient Device to Control Biased Thermotactic Response of <i>C. elegans</i> . <i>Analytical Sciences</i> , 2019 , 35, 1367-1373	1.7	1
13	Engineering 3D Cortical Spheroids for an Ischemic Stroke Model. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3845-3860	5.5	1
12	Pillar-Based Mechanical Induction of an Aggressive Tumorigenic Lung Cancer Cell Model.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
11	Design and Fabrication of a Lorentz Force Driven Micro Indenter. <i>Journal of Biomechanical Science and Engineering</i> , 2011 , 6, 183-190	0.8	1

- 10 Actin-Based Spring in Horseshoe Crab Sperm. *Key Engineering Materials*, **2006**, 326-328, 815-818 0.4
- 9 Effects of Mechanical Stimulus on Cells Via Multi-Cellular Indentation Device. *IFMBE Proceedings*, **2009**, 1949-1951 0.2
- 8 DYNAMIC STUDY OF CELLULAR INDENTATION USING ELECTROMAGNETIC MEMS DEVICE(1A2 Micro & Nano Biomechanics II). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2007**, 2007.3, S12
- 7 EFFECTS OF UNIFORM SHEAR STRESS ON THE DYNAMIC RESPONSES OF VASCULAR ENDOTHELIAL CELL(1D2 Cardiovascular Mechanics II). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2007**, 2007.3, S64
- 6 Characterization of Dynamic Behavior of *C. elegans* in Different Physical Environments. *Journal of the Korean Society of Visualization*, **2014**, 12, 18-22
- 5 GS2-10 Focal adhesion assembly regulates phenotypic changes and dedifferentiation in chondrocytes(GS2: Orthopaedic Biomechanics II). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2015**, 2015.8, 153
- 4 GS1-19 Characterization of kinematics and forces within a scattering monolayer(GS1: Cell and Tissue Biomechanics IV). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2015**, 2015.8, 132
- 3 PS2-19 Control of fibrosis by atmospheric pressure plasma(PS2: Poster Short Presentation II,Poster Session). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2015**, 2015.8, 261
- 2 PS2-18 Regulation of microglial phenotype by flow induced cytoskeletal alterations(PS2: Poster Short Presentation II,Poster Session). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2015**, 2015.8, 260
- 1 Effects of Mechanically Different Environments on the Crawling Waveform of *Caenorhabditis Elegans*. *Transactions of the Korean Society of Mechanical Engineers, B*, **2012**, 36, 125-130 0.5