

Dennis E Discher

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/556728/publications.pdf>

Version: 2024-02-01

287
papers

61,469
citations

3731

89
h-index

893

242
g-index

301
all docs

301
docs citations

301
times ranked

50263
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix Elasticity Directs Stem Cell Lineage Specification. <i>Cell</i> , 2006, 126, 677-689.	28.9	11,769
2	Tissue Cells Feel and Respond to the Stiffness of Their Substrate. <i>Science</i> , 2005, 310, 1139-1143.	12.6	5,376
3	Polymer Vesicles. <i>Science</i> , 2002, 297, 967-973.	12.6	3,444
4	Polymersomes: Tough Vesicles Made from Diblock Copolymers. <i>Science</i> , 1999, 284, 1143-1146.	12.6	2,369
5	Growth Factors, Matrices, and Forces Combine and Control Stem Cells. <i>Science</i> , 2009, 324, 1673-1677.	12.6	2,351
6	Shape effects of filaments versus spherical particles in flow and drug delivery. <i>Nature Nanotechnology</i> , 2007, 2, 249-255.	31.5	2,296
7	Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. <i>Science</i> , 2013, 341, 1240104.	12.6	1,595
8	Myotubes differentiate optimally on substrates with tissue-like stiffness. <i>Journal of Cell Biology</i> , 2004, 166, 877-887.	5.2	1,501
9	Mesenchymal stem cell perspective: cell biology to clinical progress. <i>Npj Regenerative Medicine</i> , 2019, 4, 22.	5.2	1,113
10	Mitotic progression following DNA damage enables pattern recognition within micronuclei. <i>Nature</i> , 2017, 548, 466-470.	27.8	1,042
11	Bio-inspired, bioengineered and biomimetic drug delivery carriers. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 521-535.	46.4	1,038
12	Substrate Compliance versus Ligand Density in Cell on Gel Responses. <i>Biophysical Journal</i> , 2004, 86, 617-628.	0.5	1,005
13	Minimal "Self" Peptides That Inhibit Phagocytic Clearance and Enhance Delivery of Nanoparticles. <i>Science</i> , 2013, 339, 971-975.	12.6	809
14	POLYMERSOMES. <i>Annual Review of Biomedical Engineering</i> , 2006, 8, 323-341.	12.3	779
15	Embryonic cardiomyocytes beat best on a matrix with heart-like elasticity: scar-like rigidity inhibits beating. <i>Journal of Cell Science</i> , 2008, 121, 3794-3802.	2.0	773
16	Physical plasticity of the nucleus in stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15619-15624.	7.1	735
17	Self-porating polymersomes of PEG-PLA and PEG-PCL: hydrolysis-triggered controlled release vesicles. <i>Journal of Controlled Release</i> , 2004, 96, 37-53.	9.9	608
18	Mesenchymal stem cell injection after myocardial infarction improves myocardial compliance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H2196-H2203.	3.2	593

#	ARTICLE	IF	CITATIONS
19	Nuclear lamin stiffness is a barrier to 3D migration, but softness can limit survival. <i>Journal of Cell Biology</i> , 2014, 204, 669-682.	5.2	512
20	Biodegradable polymersomes loaded with both paclitaxel and doxorubicin permeate and shrink tumors, inducing apoptosis in proportion to accumulated drug. <i>Journal of Controlled Release</i> , 2006, 116, 150-158.	9.9	507
21	Molecular Weight Dependence of Polymersome Membrane Structure, Elasticity, and Stability. <i>Macromolecules</i> , 2002, 35, 8203-8208.	4.8	505
22	Polymer vesicles in vivo: correlations with PEG molecular weight. <i>Journal of Controlled Release</i> , 2003, 90, 323-334.	9.9	488
23	Temperature-Controlled Assembly and Release from Polymer Vesicles of Poly(ethylene oxide)-block-poly(N-isopropylacrylamide). <i>Advanced Materials</i> , 2006, 18, 2905-2909.	21.0	456
24	Highly cited research articles in <i>Journal of Controlled Release</i> : Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014, 190, 29-74.	9.9	394
25	Preparation, stability, and in vitro performance of vesicles made with diblock copolymers. <i>Biotechnology and Bioengineering</i> , 2001, 73, 135-145.	3.3	384
26	Inhibition of "self"-engulfment through deactivation of myosin-II at the phagocytic synapse between human cells. <i>Journal of Cell Biology</i> , 2008, 180, 989-1003.	5.2	379
27	The nuclear envelope lamina network has elasticity and a compressibility limit suggestive of a molecular shock absorber. <i>Journal of Cell Science</i> , 2004, 117, 4779-4786.	2.0	376
28	Emerging applications of polymersomes in delivery: From molecular dynamics to shrinkage of tumors. <i>Progress in Polymer Science</i> , 2007, 32, 838-857.	24.7	351
29	Cell responses to the mechanochemical microenvironment "Implications for regenerative medicine and drug delivery". <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1329-1339.	13.7	351
30	Matrix elasticity, cytoskeletal forces and physics of the nucleus: how deeply do cells "feel" outside and in?. <i>Journal of Cell Science</i> , 2010, 123, 297-308.	2.0	349
31	Polymersome carriers: From self-assembly to siRNA and protein therapeutics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 463-474.	4.3	348
32	Multiscale Mechanics of Fibrin Polymer: Gel Stretching with Protein Unfolding and Loss of Water. <i>Science</i> , 2009, 325, 741-744.	12.6	346
33	Self-assembly and properties of diblock copolymers by coarse-grain molecular dynamics. <i>Nature Materials</i> , 2004, 3, 638-644.	27.5	340
34	Forced Unfolding of Proteins Within Cells. <i>Science</i> , 2007, 317, 663-666.	12.6	335
35	Simulations of the Erythrocyte Cytoskeleton at Large Deformation. II. Micropipette Aspiration. <i>Biophysical Journal</i> , 1998, 75, 1584-1597.	0.5	332
36	Matrix Elasticity Regulates Lamin-A,C Phosphorylation and Turnover with Feedback to Actomyosin. <i>Current Biology</i> , 2014, 24, 1909-1917.	3.9	320

#	ARTICLE	IF	CITATIONS
37	Surface probe measurements of the elasticity of sectioned tissue, thin gels and polyelectrolyte multilayer films: Correlations between substrate stiffness and cell adhesion. <i>Surface Science</i> , 2004, 570, 142-154.	1.9	305
38	Shrinkage of a Rapidly Growing Tumor by Drug-Loaded Polymersomes: A pH-Triggered Release through Copolymer Degradation. <i>Molecular Pharmaceutics</i> , 2006, 3, 340-350.	4.6	305
39	Mechanosensing by the nucleus: From pathways to scaling relationships. <i>Journal of Cell Biology</i> , 2017, 216, 305-315.	5.2	301
40	Power-Law Rheology of Isolated Nuclei with Deformation Mapping of Nuclear Substructures. <i>Biophysical Journal</i> , 2005, 89, 2855-2864.	0.5	293
41	Spotted vesicles, striped micelles and Janus assemblies induced by ligand binding. <i>Nature Materials</i> , 2009, 8, 843-849.	27.5	283
42	How deeply cells feel: methods for thin gels. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194116.	1.8	264
43	Flexible Filaments for <i>in Vivo</i> Imaging and Delivery: Persistent Circulation of Filomicelles Opens the Dosage Window for Sustained Tumor Shrinkage. <i>Molecular Pharmaceutics</i> , 2009, 6, 1343-1352.	4.6	259
44	Micelles of Different Morphologies – Advantages of Worm-like Filomicelles of PEO-PCL in Paclitaxel Delivery. <i>Pharmaceutical Research</i> , 2007, 24, 2099-2109.	3.5	258
45	Hydrolytic Degradation of Poly(ethylene oxide)-block-Polycaprolactone Worm Micelles. <i>Journal of the American Chemical Society</i> , 2005, 127, 12780-12781.	13.7	255
46	Cross-linked Polymersome Membranes: Vesicles with Broadly Adjustable Properties. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2848-2854.	2.6	249
47	Crawling from soft to stiff matrix polarizes the cytoskeleton and phosphoregulates myosin-II heavy chain. <i>Journal of Cell Biology</i> , 2012, 199, 669-683.	5.2	249
48	Indentation and Adhesive Probing of a Cell Membrane with AFM: Theoretical Model and Experiments. <i>Biophysical Journal</i> , 2005, 89, 3203-3213.	0.5	241
49	DNA Damage Follows Repair Factor Depletion and Portends Genome Variation in Cancer Cells after Pore Migration. <i>Current Biology</i> , 2017, 27, 210-223.	3.9	239
50	Elasticity of Native and Cross-Linked Polyelectrolyte Multilayer Films. <i>Biomacromolecules</i> , 2004, 5, 1908-1916.	5.4	223
51	Mechanosensing by the Lamina Protects against Nuclear Rupture, DNA Damage, and Cell-Cycle Arrest. <i>Developmental Cell</i> , 2019, 49, 920-935.e5.	7.0	217
52	Polymer vesicles in various media. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 125-131.	7.4	204
53	Polymeric worm micelles as nano-carriers for drug delivery. <i>Nanotechnology</i> , 2005, 16, S484-S491.	2.6	191
54	Stem Cell Differentiation is Regulated by Extracellular Matrix Mechanics. <i>Physiology</i> , 2018, 33, 16-25.	3.1	191

#	ARTICLE	IF	CITATIONS
55	Dissipative Particle Dynamics Simulations of Polymersomes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17708-17714.	2.6	185
56	Heart-Specific Stiffening in Early Embryos Parallels Matrix and Myosin Expression to Optimize Beating. <i>Current Biology</i> , 2013, 23, 2434-2439.	3.9	176
57	Matrix Strains Induced by Cells: Computing How Far Cells Can Feel. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 39-48.	2.1	172
58	The nuclear lamina is mechano-responsive to ECM elasticity in mature tissue. <i>Journal of Cell Science</i> , 2014, 127, 3005-15.	2.0	170
59	Biomechanics: Cell Research and Applications for the Next Decade. <i>Annals of Biomedical Engineering</i> , 2009, 37, 847-859.	2.5	169
60	Polymersome delivery of siRNA and antisense oligonucleotides. <i>Journal of Controlled Release</i> , 2009, 134, 132-140.	9.9	167
61	Cooperativity in Forced Unfolding of Tandem Spectrin Repeats. <i>Biophysical Journal</i> , 2003, 84, 533-544.	0.5	166
62	Lamins regulate cell trafficking and lineage maturation of adult human hematopoietic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18892-18897.	7.1	165
63	Simulations of the Erythrocyte Cytoskeleton at Large Deformation. I. Microscopic Models. <i>Biophysical Journal</i> , 1998, 75, 1573-1583.	0.5	163
64	Adhesively-Tensed Cell Membranes: Lysis Kinetics and Atomic Force Microscopy Probing. <i>Biophysical Journal</i> , 2003, 85, 2746-2759.	0.5	163
65	Matrix Elasticity, Cytoskeletal Tension, and TGF- β 2: The Insoluble and Soluble Meet. <i>Science Signaling</i> , 2008, 1, pe13.	3.6	159
66	Microtissue Elasticity: Measurements by Atomic Force Microscopy and Its Influence on Cell Differentiation. <i>Methods in Cell Biology</i> , 2007, 83, 521-545.	1.1	158
67	Mechanotransduction in cancer. <i>Current Opinion in Chemical Engineering</i> , 2016, 11, 77-84.	7.8	138
68	Nanoparticle Shape Improves Delivery: Rational Coarse Grain Molecular Dynamics (rCG-MD) of Taxol in Worm-Like PEG-PCL Micelles. <i>Advanced Materials</i> , 2012, 24, 3823-3830.	21.0	136
69	Species- and cell type-specific interactions between CD47 and human SIRP α . <i>Blood</i> , 2006, 107, 2548-2556.	1.4	135
70	Forced Unfolding of Coiled-Coils in Fibrinogen by Single-Molecule AFM. <i>Biophysical Journal</i> , 2007, 92, L39-L41.	0.5	134
71	Nuclear rupture at sites of high curvature compromises retention of DNA repair factors. <i>Journal of Cell Biology</i> , 2018, 217, 3796-3808.	5.2	134
72	Targeted Worm Micelles. <i>Biomacromolecules</i> , 2004, 5, 1714-1719.	5.4	128

#	ARTICLE	IF	CITATIONS
73	Cell rigidity and shape override CD47's self-signaling in phagocytosis by hyperactivating myosin-II. <i>Blood</i> , 2015, 125, 542-552.	1.4	122
74	Self inhibition of phagocytosis: The affinity of α -marker of self CD47 for SIRP α dictates potency of inhibition but only at low expression levels. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 45, 67-74.	1.4	121
75	From Membranes to Melts, Rouse to Reptation: α Diffusion in Polymersome versus Lipid Bilayers. <i>Macromolecules</i> , 2002, 35, 323-326.	4.8	120
76	Contractile Forces Sustain and Polarize Hematopoiesis from Stem and Progenitor Cells. <i>Cell Stem Cell</i> , 2014, 14, 81-93.	11.1	114
77	Curvature-Coupled Hydration of Semicrystalline Polymer Amphiphiles Yields flexible Worm Micelles but Favors Rigid Vesicles: Polycaprolactone-Based Block Copolymers. <i>Macromolecules</i> , 2010, 43, 9736-9746.	4.8	111
78	Grafting Short Peptides onto Polybutadiene-block-poly(ethylene oxide): A Platform for Self-Assembling Hybrid Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7578-7581.	13.8	108
79	Fractal heterogeneity in minimal matrix models of scars modulates stiff-niche stem-cell responses via nuclear exit of a mechanorepressor. <i>Nature Materials</i> , 2015, 14, 951-960.	27.5	108
80	Visualizing Worm Micelle Dynamics and Phase Transitions of a Charged Diblock Copolymer in Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3772-3779.	2.6	107
81	Visualization of degradable worm micelle breakdown in relation to drug release. <i>Polymer</i> , 2006, 47, 2519-2525.	3.8	107
82	Hyaluronic acid matrices show matrix stiffness in 2D and 3D dictates cytoskeletal order and myosin-II phosphorylation within stem cells. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 422.	1.3	107
83	Deformation-Enhanced Fluctuations in the Red Cell Skeleton with Theoretical Relations to Elasticity, Connectivity, and Spectrin Unfolding. <i>Biophysical Journal</i> , 2001, 81, 3178-3192.	0.5	106
84	Single Molecule Visualization of Stable, Stiffness-Tunable, Flow-Conforming Worm Micelles. <i>Macromolecules</i> , 2003, 36, 6873-6877.	4.8	105
85	Osmotic Challenge Drives Rapid and Reversible Chromatin Condensation in Chondrocytes. <i>Biophysical Journal</i> , 2013, 104, 759-769.	0.5	105
86	Nuclear constriction segregates mobile nuclear proteins away from chromatin. <i>Molecular Biology of the Cell</i> , 2016, 27, 4011-4020.	2.1	104
87	Stem cell mechanobiology: diverse lessons from bone marrow. <i>Trends in Cell Biology</i> , 2015, 25, 523-532.	7.9	103
88	Cell's Extracellular Matrix Mechanobiology: Forceful Tools and Emerging Needs for Basic and Translational Research. <i>Nano Letters</i> , 2018, 18, 1-8.	9.1	103
89	Endothelial Targeting of Antibody-Decorated Polymeric Filomicelles. <i>ACS Nano</i> , 2011, 5, 6991-6999.	14.6	102
90	Constricted migration increases DNA damage and independently represses cell cycle. <i>Molecular Biology of the Cell</i> , 2018, 29, 1948-1962.	2.1	101

#	ARTICLE	IF	CITATIONS
91	SIRPA-Inhibited, Marrow-Derived Macrophages Engorge, Accumulate, and Differentiate in Antibody-Targeted Regression of Solid Tumors. <i>Current Biology</i> , 2017, 27, 2065-2077.e6.	3.9	99
92	Adhesion-contractile balance in myocyte differentiation. <i>Journal of Cell Science</i> , 2004, 117, 5855-5863.	2.0	96
93	Stem cells, microenvironment mechanics, and growth factor activation. <i>Current Opinion in Cell Biology</i> , 2009, 21, 630-635.	5.4	95
94	Nuclear Lamins in Cancer. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 258-267.	2.1	95
95	Coordinated increase of nuclear tension and lamin-A with matrix stiffness outcompetes lamin-B receptor that favors soft tissue phenotypes. <i>Molecular Biology of the Cell</i> , 2017, 28, 3333-3348.	2.1	94
96	Pathway Shifts and Thermal Softening in Temperature-Coupled Forced Unfolding of Spectrin Domains. <i>Biophysical Journal</i> , 2003, 85, 3286-3293.	0.5	89
97	Matrix Mechanosensing: From Scaling Concepts in â€^{TM} Omics Data to Mechanisms in the Nucleus, Regeneration, and Cancer. <i>Annual Review of Biophysics</i> , 2017, 46, 295-315.	10.0	89
98	Cell differentiation through tissue elasticity-coupled, myosin-driven remodeling. <i>Current Opinion in Cell Biology</i> , 2008, 20, 609-615.	5.4	87
99	Calcium-Dependent Lateral Organization in Phosphatidylinositol 4,5-Bisphosphate (PIP ₂)- and Cholesterol-Containing Monolayers. <i>Biochemistry</i> , 2009, 48, 8241-8248.	2.5	87
100	Stem cells feel the difference. <i>Nature Methods</i> , 2010, 7, 695-697.	19.0	86
101	Simulation of Diblock Copolymer Self-Assembly, Using a Coarse-Grain Model. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8153-8160.	2.6	85
102	Macrophage engulfment of a cell or nanoparticle is regulated by unavoidable opsonization, a species-specific â€^{TM} Marker of Self â€^{TM} CD47, and target physical properties. <i>Current Opinion in Immunology</i> , 2015, 35, 107-112.	5.5	85
103	Unfolding a Linker between Helical Repeats. <i>Journal of Molecular Biology</i> , 2005, 349, 638-647.	4.2	84
104	Conformational Changes and Signaling in Cell and Matrix Physics. <i>Current Biology</i> , 2009, 19, R781-R789.	3.9	79
105	Block Copolymer Assemblies with Cross-Link Stabilization: â€^{A} From Single-Component Monolayers to Bilayer Blends with PEO â€^{r} PLA â€^{e} . <i>Langmuir</i> , 2003, 19, 6505-6511.	3.5	78
106	Combining insoluble and soluble factors to steer stem cell fate. <i>Nature Materials</i> , 2014, 13, 532-537.	27.5	76
107	Rescue of DNA damage after constricted migration reveals a mechano-regulated threshold for cell cycle. <i>Journal of Cell Biology</i> , 2019, 218, 2545-2563.	5.2	76
108	Key Roles for Chain Flexibility in Block Copolymer Membranes that Contain Pores or Make Tubes. <i>Nano Letters</i> , 2005, 5, 2343-2349.	9.1	75

#	ARTICLE	IF	CITATIONS
109	Divalent Cation-Dependent Formation of Electrostatic PIP2 Clusters in Lipid Monolayers. <i>Biophysical Journal</i> , 2011, 101, 2178-2184.	0.5	75
110	Protein unfolding accounts for the unusual mechanical behavior of fibrin networks. <i>Acta Biomaterialia</i> , 2011, 7, 2374-2383.	8.3	75
111	Myosin-II inhibition and soft 2D matrix maximize multinucleation and cellular projections typical of platelet-producing megakaryocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11458-11463.	7.1	74
112	Macrophage checkpoint blockade: results from initial clinical trials, binding analyses, and CD47-SIRPÎ± structureâ€™function. <i>Antibody Therapeutics</i> , 2020, 3, 80-94.	1.9	73
113	The effect of CD47 modified polymer surfaces on inflammatory cell attachment and activation. <i>Biomaterials</i> , 2011, 32, 4317-4326.	11.4	71
114	From Stealthy Polymersomes and Filomicelles to â€™Selfâ€™-Peptide-Nanoparticles for Cancer Therapy. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 281-299.	6.8	68
115	Conformational Stabilities of the Structural Repeats of Erythroid Spectrin and Their Functional Implications. <i>Journal of Biological Chemistry</i> , 2006, 281, 10527-10532.	3.4	65
116	Polymersomes as viral capsid mimics. <i>Drug Development Research</i> , 2006, 67, 4-14.	2.9	61
117	Mechanosensing of matrix by stem cells: From matrix heterogeneity, contractility, and the nucleus in pore-migration to cardiogenesis and muscle stem cells in vivo. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 84-98.	5.0	61
118	Membrane Solubilization by Detergent:Â Resistance Conferred by Thickness. <i>Langmuir</i> , 2004, 20, 3888-3893.	3.5	59
119	Microscopic Methods for Measuring the Elasticity of Gel Substrates for Cell Culture: Microspheres, Microindenters, and Atomic Force Microscopy. <i>Methods in Cell Biology</i> , 2007, 83, 47-65.	1.1	59
120	Curvature-driven molecular demixing in the budding and breakup of mixed component worm-like micelles. <i>Soft Matter</i> , 2010, 6, 1419.	2.7	59
121	Cross-linked matrix rigidity and soluble retinoids synergize in nuclear lamina regulation of stem cell differentiation. <i>Molecular Biology of the Cell</i> , 2017, 28, 2010-2022.	2.1	59
122	Mechanobiology of bone marrow stem cells: From myosin-II forces to compliance of matrix and nucleus in cell forms and fates. <i>Differentiation</i> , 2013, 86, 77-86.	1.9	58
123	Filomicelles in nanomedicine â€™ from flexible, fragmentable, and ligand-targetable drug carrier designs to combination therapy for brain tumors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5177.	5.8	58
124	Persistence-Driven Durotaxis: Generic, Directed Motility in Rigidity Gradients. <i>Physical Review Letters</i> , 2017, 118, 078103.	7.8	58
125	Phylogenetic Divergence of CD47 Interactions with Human Signal Regulatory Protein Î± Reveals Locus of Species Specificity. <i>Journal of Biological Chemistry</i> , 2007, 282, 1805-1818.	3.4	56
126	Nuclear Mechanics and Methods. <i>Methods in Cell Biology</i> , 2007, 83, 269-294.	1.1	56

#	ARTICLE	IF	CITATIONS
127	Stress Sensitivity and Mechanotransduction during Heart Development. <i>Current Biology</i> , 2014, 24, R495-R501.	3.9	56
128	Defining of the Minimal Domain of Protein 4.1 Involved in Spectrin-Actin Binding. <i>Journal of Biological Chemistry</i> , 1995, 270, 21243-21250.	3.4	55
129	Organization of Self-Assembled Peptide-Polymer Nanofibers in Solution. <i>Macromolecules</i> , 2008, 41, 1430-1437.	4.8	55
130	Effect of Polymer Amphiphilicity on Loading of a Therapeutic Enzyme into Protective Filamentous and Spherical Polymer Nanocarriers. <i>Biomacromolecules</i> , 2007, 8, 3914-3921.	5.4	54
131	Chemistry on a Single Protein, Vascular Cell Adhesion Molecule-1, during Forced Unfolding. <i>Journal of Biological Chemistry</i> , 2004, 279, 45865-45874.	3.4	53
132	Topographical Pattern Dynamics in Passive Adhesion of Cell Membranes. <i>Biophysical Journal</i> , 2004, 87, 3547-3560.	0.5	53
133	Nanopolymeric Therapeutics. <i>MRS Bulletin</i> , 2009, 34, 422-431.	3.5	51
134	Raft registration across bilayers in a molecularly detailed model. <i>Soft Matter</i> , 2011, 7, 8182.	2.7	51
135	SnapShot: Mechanosensing Matrix. <i>Cell</i> , 2016, 165, 1820-1820.e1.	28.9	51
136	Engineering macrophages to eat cancer: from a marker of self-CD47 and phagocytosis to differentiation. <i>Journal of Leukocyte Biology</i> , 2017, 102, 31-40.	3.3	51
137	Enhancing the Efficacy of Drug-loaded Nanocarriers against Brain Tumors by Targeted Radiation Therapy. <i>Oncotarget</i> , 2013, 4, 64-79.	1.8	51
138	Genome variation across cancers scales with tissue stiffness – An invasion-mutation mechanism and implications for immune cell infiltration. <i>Current Opinion in Systems Biology</i> , 2017, 2, 103-114.	2.6	50
139	Fractional attachment of CD47 (IAP) to the erythrocyte cytoskeleton and visual colocalization with Rh protein complexes. <i>Blood</i> , 2003, 101, 1194-1199.	1.4	49
140	Synthetic Cells – Self-Assembling Polymer Membranes and Bioadhesive Colloids. <i>Annual Review of Materials Research</i> , 2001, 31, 387-404.	9.3	48
141	Patterning, Prestress, and Peeling Dynamics of Myocytes. <i>Biophysical Journal</i> , 2004, 86, 1209-1222.	0.5	48
142	Direct Measures of Large, Anisotropic Strains in Deformation of the Erythrocyte Cytoskeleton. <i>Biophysical Journal</i> , 1999, 77, 853-864.	0.5	47
143	New insights into erythrocyte membrane organization and microelasticity. <i>Current Opinion in Hematology</i> , 2000, 7, 117-122.	2.5	47
144	Biopolymer mimicry with polymeric wormlike micelles: Molecular weight scaled flexibility, locked-in curvature, and coexisting microphases. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 168-176.	2.1	47

#	ARTICLE	IF	CITATIONS
145	Mechanical signaling coordinates the embryonic heartbeat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8939-8944.	7.1	46
146	TCR Triggering by pMHC Ligands Tethered on Surfaces via Poly(Ethylene Glycol) Depends on Polymer Length. <i>PLoS ONE</i> , 2014, 9, e112292.	2.5	46
147	Membrane fluctuations and acidosis regulate cooperative binding of α -marker of self-CD47 with macrophage checkpoint receptor SIRP α . <i>Journal of Cell Science</i> , 2018, 132, .	2.0	45
148	Protein 4.2 is critical to CD47-membrane skeleton attachment in human red cells. <i>Blood</i> , 2004, 103, 1131-1136.	1.4	44
149	Molecular Extensibility of Mini-dystrophins and a Dystrophin Rod Construct. <i>Journal of Molecular Biology</i> , 2005, 352, 795-806.	4.2	44
150	Crosslinked actin networks show liquid crystal elastomer behaviour, including soft-mode elasticity. <i>Nature Physics</i> , 2007, 3, 354-360.	16.7	43
151	Striated Acto-Myosin Fibers Can Reorganize and Register in Response to Elastic Interactions with the Matrix. <i>Biophysical Journal</i> , 2011, 100, 2706-2715.	0.5	42
152	As a Nucleus Enters a Small Pore, Chromatin Stretches and Maintains Integrity, Even with DNA Breaks. <i>Biophysical Journal</i> , 2017, 112, 446-449.	0.5	41
153	Tension in fibrils suppresses their enzymatic degradation – A molecular mechanism for “use it or lose it”. <i>Matrix Biology</i> , 2020, 85-86, 34-46.	3.6	41
154	Systems Mechanobiology: Tension-Inhibited Protein Turnover Is Sufficient to Physically Control Gene Circuits. <i>Biophysical Journal</i> , 2014, 107, 2734-2743.	0.5	40
155	Filamentous Polymer Nanocarriers of Tunable Stiffness that Encapsulate the Therapeutic Enzyme Catalase. <i>Biomacromolecules</i> , 2009, 10, 1324-1330.	5.4	39
156	Cysteine shotgun mass spectrometry (CS-MS) reveals dynamic sequence of protein structure changes within mutant and stressed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8269-8274.	7.1	39
157	Myosin-II repression favors pre/proplatelets but shear activation generates platelets and fails in macrothrombocytopenia. <i>Blood</i> , 2015, 125, 525-533.	1.4	38
158	Domain unfolding in neurofilament sidearms: effects of phosphorylation and ATP. <i>FEBS Letters</i> , 2002, 531, 397-401.	2.8	37
159	Mechanical Regulation of Cells by Materials and Tissues. <i>MRS Bulletin</i> , 2010, 35, 578-583.	3.5	37
160	Phase transitions and anisotropic responses of planar triangular nets under large deformation. <i>Physical Review E</i> , 1997, 55, 4762-4772.	2.1	36
161	Progerin phosphorylation in interphase is lower and less mechanosensitive than lamin-A,C in iPS-derived mesenchymal stem cells. <i>Nucleus</i> , 2018, 9, 235-250.	2.2	35
162	Actin Protofilament Orientation in Deformation of the Erythrocyte Membrane Skeleton. <i>Biophysical Journal</i> , 2000, 79, 2987-3000.	0.5	34

#	ARTICLE	IF	CITATIONS
163	Effect of Surfactant on Unilamellar Polymeric Vesicles: Altered Membrane Properties and Stability in the Limit of Weak Surfactant Partitioning. <i>Langmuir</i> , 2002, 18, 7299-7308.	3.5	34
164	RhoA Is Essential for Maintaining Normal Megakaryocyte Ploidy and Platelet Generation. <i>PLoS ONE</i> , 2013, 8, e69315.	2.5	34
165	Polymer Vesicles with a Red Cell-like Surface Charge: Microvascular Imaging and in vivo Tracking with Near-Infrared Fluorescence. <i>Macromolecular Rapid Communications</i> , 2010, 31, 135-141.	3.9	33
166	Curvature, rigidity, and pattern formation in functional polymer micelles and vesicles – From dynamic visualization to molecular simulation. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 277-284.	11.5	33
167	Rupture Dynamics and Chromatin Herniation in Deformed Nuclei. <i>Biophysical Journal</i> , 2017, 113, 1060-1071.	0.5	33
168	Macrophages show higher levels of engulfment after disruption of cis interactions between CD47 and the checkpoint receptor SIRP. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	33
169	Computer simulation of aqueous block copolymer assemblies: Length scales and methods. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1907-1918.	2.1	32
170	Pathogenic proline mutation in the linker between spectrin repeats: disease caused by spectrin unfolding. <i>Blood</i> , 2007, 109, 3538-3543.	1.4	32
171	Cross-Correlated TIRF/AFM Reveals Asymmetric Distribution of Force-Generating Heads along Self-Assembled, Synthetic Myosin Filaments. <i>Biophysical Journal</i> , 2009, 96, 1952-1960.	0.5	32
172	Matrix rigidity regulates microtubule network polarization in migration. <i>Cytoskeleton</i> , 2017, 74, 114-124.	2.0	32
173	The macrophage checkpoint CD47 : SIRP for recognition of self cells: from clinical trials of blocking antibodies to mechanobiological fundamentals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180217.	4.0	32
174	Actin Protofilament Orientation at the Erythrocyte Membrane. <i>Biophysical Journal</i> , 1999, 77, 865-878.	0.5	31
175	Post-translational regulation of expression and conformation of an immunoglobulin domain in yeast surface display. <i>Biotechnology and Bioengineering</i> , 2006, 93, 159-168.	3.3	31
176	Bending Contributions to Hydration of Phospholipid and Block Copolymer Membranes: Unifying Correlations between Probe Fluorescence and Vesicle Thermoelasticity. <i>Langmuir</i> , 2001, 17, 3592-3597.	3.5	30
177	Membrane mobility and clustering of Integrin Associated Protein (IAP, CD47) – Major differences between mouse and man and implications for signaling. <i>Blood Cells, Molecules, and Diseases</i> , 2006, 36, 364-372.	1.4	30
178	Interactions of Membrane-Active Peptides with Thick, Neutral, Nonzwitterionic Bilayers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14356-14364.	2.6	29
179	Material control of stem cell differentiation: challenges in nano-characterization. <i>Current Opinion in Biotechnology</i> , 2014, 28, 46-50.	6.6	29
180	Preparation of Collagen-Coated Gels that Maximize In Vitro Myogenesis of Stem Cells by Matching the Lateral Elasticity of In Vivo Muscle. <i>Methods in Molecular Biology</i> , 2010, 621, 185-202.	0.9	29

#	ARTICLE	IF	CITATIONS
181	Lung vascular targeting through inhalation delivery: Insight from filamentous viruses and other shapes. <i>IUBMB Life</i> , 2011, 63, 607-612.	3.4	27
182	Probing the structure of PEGylated-lipid assemblies by coarse-grained molecular dynamics. <i>Soft Matter</i> , 2013, 9, 11549.	2.7	27
183	<i>Leishmania major</i> Infection Induced VEGF-A/VEGFR-2 Signaling Promotes Lymphangiogenesis That Controls Disease. <i>Journal of Immunology</i> , 2016, 197, 1823-1831.	0.8	27
184	Influence of Lateral Association on Forced Unfolding of Antiparallel Spectrin Heterodimers. <i>Journal of Biological Chemistry</i> , 2004, 279, 16410-16416.	3.4	25
185	Mechanical Force in T Cell Receptor Signal Initiation. <i>Frontiers in Immunology</i> , 2012, 3, 217.	4.8	25
186	Towards precision micelles. <i>Nature</i> , 2004, 430, 519-520.	27.8	24
187	Upregulation of paxillin and focal adhesion signaling follows Dystroglycan Complex deletions and promotes a hypertensive state of differentiation. <i>European Journal of Cell Biology</i> , 2011, 90, 249-260.	3.6	24
188	Synthetic cell elements from block copolymers hydrodynamic aspects. <i>Comptes Rendus Physique</i> , 2003, 4, 251-258.	0.9	23
189	β -Sarcoglycan deficiency increases cell contractility, apoptosis and MAPK pathway activation but does not affect adhesion. <i>Journal of Cell Science</i> , 2005, 118, 1405-1416.	2.0	23
190	Nuclear failure, DNA damage, and cell cycle disruption after migration through small pores: a brief review. <i>Essays in Biochemistry</i> , 2019, 63, 569-577.	4.7	23
191	Constricted migration modulates stem cell differentiation. <i>Molecular Biology of the Cell</i> , 2019, 30, 1985-1999.	2.1	23
192	Dynamics of Wormlike Micelles in Elongational Flows. <i>Macromolecules</i> , 2006, 39, 7144-7148.	4.8	22
193	Domain formation in cholesterol phospholipid membranes exposed to adhesive surfaces or environments. <i>Soft Matter</i> , 2013, 9, 8438.	2.7	22
194	Matrix elasticity in vitro controls muscle stem cell fate in vivo. <i>Stem Cell Research and Therapy</i> , 2010, 1, 38.	5.5	21
195	Elastic-Fluid Model for DNA Damage and Mutation from Nuclear Fluid Segregation Due to Cell Migration. <i>Biophysical Journal</i> , 2017, 112, 2271-2279.	0.5	21
196	Scaling laws indicate distinct nucleation mechanisms of holes in the nuclear lamina. <i>Nature Physics</i> , 2019, 15, 823-829.	16.7	21
197	Forced Unfolding of Proteins Directs Biochemical Cascades. <i>Biochemistry</i> , 2019, 58, 4893-4902.	2.5	21
198	Exon-skipped dystrophins for treatment of Duchenne muscular dystrophy: Mass spectrometry mapping of most exons and cooperative domain designs based on single molecule mechanics. <i>Cytoskeleton</i> , 2010, 67, 796-807.	2.0	20

#	ARTICLE	IF	CITATIONS
199	Nuclear mechanics during and after constricted migration. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 299-308.	3.4	20
200	Cardiomyocytes from late embryos and neonates do optimal work and striate best on substrates with tissue-level elasticity: metrics and mathematics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 1219-1225.	2.8	19
201	Marker of Self-CD47 on lentiviral vectors decreases macrophage-mediated clearance and increases delivery to SIRPA-expressing lung carcinoma tumors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2016, 3, 16080.	4.1	18
202	Physical Plasticity of the Nucleus and its Manipulation. <i>Methods in Cell Biology</i> , 2010, 98, 207-220.	1.1	17
203	Filomicelles from aromatic diblock copolymers increase paclitaxel-induced tumor cell death and aneuploidy compared with aliphatic copolymers. <i>Nanomedicine</i> , 2016, 11, 1551-1569.	3.3	17
204	Nuclear mechanosensing. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 713-725.	2.6	17
205	Morphologies of Charged Diblock Copolymers Simulated with a Neutral Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4689-4695.	2.6	16
206	Label-free mass spectrometry exploits dozens of detected peptides to quantify lamins in wildtype and knockdown cells. <i>Nucleus</i> , 2013, 4, 450-459.	2.2	16
207	The "metabolon"™, CD47, and the "phagocytic synapse"™: molecular co-localization and species divergence. <i>Transfusion Clinique Et Biologique</i> , 2006, 13, 31-38.	0.4	15
208	Filomicelles Deliver a Chemo-Differentiation Combination of Paclitaxel and Retinoic Acid That Durably Represses Carcinomas in Liver to Prolong Survival. <i>Bioconjugate Chemistry</i> , 2018, 29, 914-927.	3.6	15
209	Nuclear Mechanics and Cancer Cell Migration. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1146, 117-130.	1.6	15
210	Scaling concepts in "omics: Nuclear lamin-B scales with tumor growth and often predicts poor prognosis, unlike fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
211	Gaussian curvature dilutes the nuclear lamina, favoring nuclear rupture, especially at high strain rate. <i>Nucleus</i> , 2022, 13, 130-144.	2.2	15
212	Nuclear pores and membrane holes: generic models for confined chains and entropic barriers in pore stabilization. <i>Soft Matter</i> , 2007, 3, 364-371.	2.7	14
213	Bubble wrap of cell-like aggregates. <i>Nature</i> , 2011, 471, 172-173.	27.8	14
214	Holding it together in the eye. <i>Nature</i> , 2004, 431, 635-636.	27.8	13
215	A hemoglobin fragment found in cervicovaginal fluid from women in labor potentiates the action of agents that promote contraction of smooth muscle cells. <i>Peptides</i> , 2006, 27, 1794-1800.	2.4	13
216	Multivalent, Soluble Nano-Self Peptides Increase Phagocytosis of Antibody-Opsonized Targets while Suppressing "Self" Signaling. <i>ACS Nano</i> , 2020, 14, 15083-15093.	14.6	12

#	ARTICLE	IF	CITATIONS
217	Soft gels select tumorigenic cells. <i>Nature Materials</i> , 2012, 11, 662-663.	27.5	11
218	Tissue mechanics coevolves with fibrillar matrixomes in healthy and fibrotic tissues. <i>Matrix Biology</i> , 2022, 111, 153-188.	3.6	11
219	Networks with fourfold connectivity in two dimensions. <i>Physical Review E</i> , 2003, 67, 011903.	2.1	10
220	Flexibility transitions and looped adsorption of wormlike chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 280-286.	2.1	10
221	Embedded shells decalcified. <i>Nature</i> , 2007, 448, 879-880.	27.8	10
222	Polymersomes and Wormlike Micelles Made Fluorescent by Direct Modifications of Block Copolymer Amphiphiles. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-10.	2.7	10
223	Simple insoluble cues specify stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18104-18105.	7.1	10
224	Static and time-dependent mechanical response of organic matrix of bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 315-325.	3.1	10
225	Piezo1 and Piezo2 foster mechanical gating of K2P channels. <i>Cell Reports</i> , 2021, 37, 110070.	6.4	10
226	Efficient Nuclear Delivery and Nuclear Body Localization of Antisense Oligo-Nucleotides using Degradable Polymersomes. , 2006, 2006, 4350-3.		9
227	Dynamic Domains in Polymersomes: Mixtures of Polyanionic and Neutral Diblocks Respond More Rapidly to Changes in Calcium than to pH. <i>Langmuir</i> , 2013, 29, 7499-7508.	3.5	9
228	Adhesion-Induced Phase Behavior of Two-Component Membranes and Vesicles. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2203-2229.	4.1	9
229	Spray stability of self-assembled filaments for delivery. <i>Journal of Controlled Release</i> , 2017, 263, 162-171.	9.9	8
230	Suppressing or Enhancing Macrophage Engulfment through the Use of CD47 and Related Peptides. <i>Bioconjugate Chemistry</i> , 2022, 33, 1989-1995.	3.6	8
231	Nuclear mechanoprotection: From tissue atlases as blueprints to distinctive regulation of nuclear lamins. <i>APL Bioengineering</i> , 2022, 6, .	6.2	8
232	Biomembrane Adhesion to Substrates Topographically Patterned with Nanopits. <i>Biophysical Journal</i> , 2018, 115, 1292-1306.	0.5	7
233	Polymersomes: A New Platform for Drug Targeting. , 2002, , 459-471.		7
234	Cell dipoles feel their way. <i>Nature Physics</i> , 2007, 3, 592-593.	16.7	6

#	ARTICLE	IF	CITATIONS
235	Glassy worm-like micelles in solvent and shear mediated shape transitions. <i>Soft Matter</i> , 2018, 14, 4194-4203.	2.7	6
236	Inhibiting Tumor Fibrosis and Actomyosin through GPCR activation. <i>Trends in Cancer</i> , 2019, 5, 197-199.	7.4	6
237	Electric Field Manipulation of Charged Copolymer Worm Micelles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3831-3834.	2.6	5
238	Block copolymer worm micelles in dilution: Mechanochemical metrics of robustness as a basis for novel linear assemblies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3431-3433.	2.1	5
239	The reason sickle reticulocytes expose PS. <i>Blood</i> , 2015, 126, 1737-1738.	1.4	5
240	CD47-SIRP α Checkpoint Disruption in Metastases Requires Tumor-Targeting Antibody for Molecular and Engineered Macrophage Therapies. <i>Cancers</i> , 2022, 14, 1930.	3.7	5
241	Covalent chemistry on distended proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7533-7534.	7.1	4
242	Blood and immune cell engineering: Cytoskeletal contractility and nuclear rheology impact cell lineage and localization. <i>BioEssays</i> , 2015, 37, 633-642.	2.5	4
243	Tethered networks in two dimensions: A low-temperature view. <i>Physical Review E</i> , 1998, 57, 4368-4374.	2.1	3
244	Marker-of-self becomes marker-of-senescence. <i>Blood</i> , 2012, 119, 5343-5344.	1.4	3
245	The Nuclear Lamina: From Mechanosensing in Differentiation to Cancer Cell Migration. , 2016, , 175-195.		3
246	Manipulating the mechanics of extracellular matrix to study effects on the nucleus and its structure. <i>Methods</i> , 2019, 157, 3-14.	3.8	3
247	Degradable Poly(ethylene oxide)-block-Polycaprolactone Worm Micelles. <i>ACS Symposium Series</i> , 2006, , 168-182.	0.5	2
248	Cys shotgun labeling of macrophages adhering to and engulfing Ig-opsonized cells. <i>Transfusion Clinique Et Biologique</i> , 2008, 15, 58-61.	0.4	2
249	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival. , 2014, , .		2
250	Rationally engineered advances in cancer research. <i>APL Bioengineering</i> , 2018, 2, 031601.	6.2	2
251	From DNA damage to epithelial integrity: new roles for cell forces. <i>Molecular Biology of the Cell</i> , 2019, 30, 1879-1881.	2.1	2
252	Human CD47-Derived Cyclic Peptides Enhance Engulfment of mAb-Targeted Melanoma by Primary Macrophages. <i>Bioconjugate Chemistry</i> , 2022, 33, 1973-1982.	3.6	2

#	ARTICLE	IF	CITATIONS
253	Application of Probe Microscopy to Protein Unfolding: Adsorption and Ensemble Analyses. ACS Symposium Series, 2005, , 162-181.	0.5	1
254	The foldome in cellular force transduction. , 2009, 2009, 3341-2.		1
255	Cysteine-Shotgun Mass Spectrometry (CS-MS) for Probing Nuclear Lamin Conformation during Mechanical Stress. Biophysical Journal, 2013, 104, 19a.	0.5	1
256	How deeply cells feel?. , 2014, , .		1
257	Systems Mechano-Biology: Tension-Inhibited Protein Turnover is Sufficient to Physically Control Gene Circuits. Biophysical Journal, 2015, 108, 365a-366a.	0.5	1
258	Biomembrane Mechanical Properties Direct Diverse Cell Functions. , 2018, , 263-285.		1
259	Polymersomes and Filomicelles. , 2013, , 183-210.		1
260	How Does CD47-SIRPÎ± â€ˆDonâ€™t Eat Me Signalâ€™ Physically Signal Self. Blood, 2013, 122, 953-953.	1.4	1
261	Conformational Compliance of Spectrins in Membrane Deformation, Morphogenesis, and Signalling. , 2003, , 213-241.		0
262	Soft Filaments Circulate Longer Than Spherical Particles - Shape Effects in Flow and Drug Delivery. , 2007, , 125.		0
263	Platelet generation under shear force modulated by site-specific phosphorylation of myosin-IIA heavy chain. , 2012, , .		0
264	Degradable Poly(ethylene oxide)-block-polycaprolactone Worm-like Micelles: From Phase Transitions and Molecular Simulation to Persistent Circulation and Shrinking Tumors. ACS Symposium Series, 2012, , 255-285.	0.5	0
265	Subcellular Organization: Change of Phase in Partitioning the Cellular Milieu. Current Biology, 2012, 22, R188-R190.	3.9	0
266	â€ˆMarker of Selfâ€™, CD47, Modulates Mechanical Forces Imposed by Macrophages during Phagocytosis. Biophysical Journal, 2013, 104, 480a.	0.5	0
267	Nuclear Damage in Highly Constrained Migration: From Lamina Defects to DNA Breaks. Biophysical Journal, 2015, 108, 115a-116a.	0.5	0
268	Filovirus Mimics Deliver Effectively. Biophysical Journal, 2016, 110, 504a.	0.5	0
269	Optimal Contractile Forces for a Mesenchymal Engine. Developmental Cell, 2017, 42, 313-315.	7.0	0
270	Cover Image, Volume 74, Issue 3. Cytoskeleton, 2017, 74, C1-C1.	2.0	0

#	ARTICLE	IF	CITATIONS
271	Matrix Rigidity Myosin-II and Lamin-A Regulate Curvature Induced Nuclear Rupture Causing Repair Factor Mislocalization and DNA Damage. Biophysical Journal, 2018, 114, 515a.	0.5	0
272	Pulling the Roof Down on Anchored Nuclei. Developmental Cell, 2019, 50, 130-131.	7.0	0
273	Lipid Droplets Deform Nucleus and Cause Mislocalization of DNA Repair Factors. Biophysical Journal, 2020, 118, 283a-284a.	0.5	0
274	Heterogeneously Strained Tissue Collagen Resists Collagenase Degradation Where Strains are High. Biophysical Journal, 2020, 118, 398a.	0.5	0
275	Inhibition of autophagosome engulfment through deactivation of myosin-II at the phagocytic synapse between human cells. Journal of Experimental Medicine, 2008, 205, i8-i8.	8.5	0
276	Multiscale Mechanics of Fibrin Clots. Blood, 2008, 112, 3089-3089.	1.4	0
277	Myosin-II Plays Central Roles In Cell Life and Death Decisions During Adult Hematopoiesis.. Blood, 2010, 116, 1595-1595.	1.4	0
278	Myosin-II Is a Major Modulator of Human Hematopoietic Stem Cell Proliferation and Differentiation. Blood, 2011, 118, 2343-2343.	1.4	0
279	Shear-Optimized Platelet-Like-Particles From High Ploidy Mks: From Segregation to Composition and Activation. Blood, 2012, 120, 3456-3456.	1.4	0
280	RhoA Is Essential for Maintaining Normal Megakaryocyte Ploidy Distribution and Platelet Generation. Blood, 2012, 120, 385-385.	1.4	0
281	Hierarchical Determination of Nuclear Deformability by Lamin Isoforms During Adult Hematopoiesis: Implications in Blood Cell Trafficking. Blood, 2012, 120, 1200-1200.	1.4	0
282	Platelet-Like-Particles Sheared From Myosin-II-Inhibited Megakaryocytes Highlights The Elevated Thrombocrit Of May-Hegglin Anomaly. Blood, 2013, 122, 2426-2426.	1.4	0
283	Engineered Donor Marrow Macrophages Phagocytose Cancer Cells and Aggressively Shrink Solid Tumor Xenografts Compared to Tumor Associated Macrophages. Blood, 2015, 126, 2214-2214.	1.4	0
284	Polymersomes. , 2019, , 537-550.		0
285	Lipid droplets displace cytoskeleton & inhibit phagocytosis implications for dysfunction in obesity. Biophysical Journal, 2022, 121, 518a.	0.5	0
286	Nuclear curvature, rupture, and lamin regulation: relations to tumor proliferation and cancer survival. Biophysical Journal, 2022, 121, 119a.	0.5	0
287	Efficient Nuclear Delivery and Nuclear Body Localization of Antisense Oligo-Nucleotides using Degradable Polymersomes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0