Dennis E Discher

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.

 269
 51,889
 84
 227

 papers
 citations
 h-index
 g-index

 301
 57,194
 8
 7.85

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
269	Gaussian curvature dilutes the nuclear lamina, favoring nuclear rupture, especially at high strain rate <i>Nucleus</i> , 2022 , 13, 129-143	3.9	1
268	Piezo1 and Piezo2 foster mechanical gating of K channels. Cell Reports, 2021, 37, 110070	10.6	1
267	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,	11.5	3
266	Macrophage checkpoint blockade: results from initial clinical trials, binding analyses, and CD47-SIRPBtructure-function. <i>Antibody Therapeutics</i> , 2020 , 3, 80-94	5.8	35
265	Macrophages show higher levels of engulfment after disruption of interactions between CD47 and the checkpoint receptor SIRP##Journal of Cell Science, 2020, 133,	5.3	19
264	Multivalent, Soluble Nano-Self Peptides Increase Phagocytosis of Antibody-Opsonized Targets while Suppressing "Self" Signaling. <i>ACS Nano</i> , 2020 , 14, 15083-15093	16.7	2
263	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	11.4	15
262	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	7.6	14
261	Constricted migration modulates stem cell differentiation. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1985-	1,999	13
260	Mechanosensing by the Lamina Protects against Nuclear Rupture, DNA Damage, and Cell-Cycle Arrest. <i>Developmental Cell</i> , 2019 , 49, 920-935.e5	10.2	129
259	Scaling laws indicate distinct nucleation mechanisms of holes in the nuclear lamina. <i>Nature Physics</i> , 2019 , 15, 823-829	16.2	15
258	Inhibiting Tumor Fibrosis and Actomyosin through GPCR activation. <i>Trends in Cancer</i> , 2019 , 5, 197-199	12.5	4
257	Nuclear mechanics during and after constricted migration. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 299-308	2	10
256	From DNA damage to epithelial integrity: new roles for cell forces. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1879-1881	3.5	2
255	Pulling the Roof Down on Anchored Nuclei. <i>Developmental Cell</i> , 2019 , 50, 130-131	10.2	
254	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	7.3	44
253	The macrophage checkpoint CD47: SIRPIFor 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	5.8	21

252 Polymersomes **2019**, 537-550

251	Nuclear Mechanics and Cancer Cell Migration. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1146, 117-130	3.6	9
250	Forced Unfolding of Proteins Directs Biochemical Cascades. <i>Biochemistry</i> , 2019 , 58, 4893-4902	3.2	10
249	Mesenchymal stem cell perspective: cell biology to clinical progress. <i>Npj Regenerative Medicine</i> , 2019 , 4, 22	15.8	532
248	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	4.1	6
247	Manipulating the mechanics of extracellular matrix to study effects on the nucleus and its structure. <i>Methods</i> , 2019 , 157, 3-14	4.6	2
246	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	6.3	10
245	Progerin phosphorylation in interphase is lower and less mechanosensitive than lamin-A,C in iPS-derived mesenchymal stem cells. <i>Nucleus</i> , 2018 , 9, 230-245	3.9	28
244	Glassy worm-like micelles in solvent and shear mediated shape transitions. Soft Matter, 2018, 14, 4194-	43.63	6
243	Constricted migration increases DNA damage and independently represses cell cycle. <i>Molecular Biology of the Cell</i> , 2018 , 29, 1948-1962	3.5	59
242	Stem Cell Differentiation is Regulated by Extracellular Matrix Mechanics. <i>Physiology</i> , 2018 , 33, 16-25	9.8	116
241	Cell-Extracellular Matrix Mechanobiology: Forceful Tools and Emerging Needs for Basic and Translational Research. <i>Nano Letters</i> , 2018 , 18, 1-8	11.5	67
240	Rationally engineered advances in cancer research. APL Bioengineering, 2018, 2, 031601	6.6	O
239	Biomembrane Mechanical Properties Direct Diverse Cell Functions 2018 , 263-285		1
238	Nuclear mechanosensing. Emerging Topics in Life Sciences, 2018, 2, 713-725	3.5	10
237	Biomembrane Adhesion to Substrates Topographically Patterned with Nanopits. <i>Biophysical Journal</i> , 2018 , 115, 1292-1306	2.9	4
236	Nuclear rupture at sites of high curvature compromises retention of DNA repair factors. <i>Journal of Cell Biology</i> , 2018 , 217, 3796-3808	7.3	78
235	Membrane fluctuations and acidosis regulate cooperative binding of 'marker of self' protein CD47 with the macrophage checkpoint receptor SIRP#\(\textit{Journal of Cell Science}\), 2018, 132,	5.3	33

234	Mechanosensing by the nucleus: From pathways to scaling relationships. <i>Journal of Cell Biology</i> , 2017 , 216, 305-315	7.3	212
233	Persistence-Driven Durotaxis: Generic, Directed Motility in Rigidity Gradients. <i>Physical Review Letters</i> , 2017 , 118, 078103	7.4	39
232	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	3.2	29
231	Spray stability of self-assembled filaments for delivery. <i>Journal of Controlled Release</i> , 2017 , 263, 162-17	'1 _{11.7}	5
230	Engineering macrophages to eat cancer: from "marker of self" CD47 and phagocytosis to differentiation. <i>Journal of Leukocyte Biology</i> , 2017 , 102, 31-40	6.5	32
229	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	7.5	45
228	Matrix Mechanosensing: From Scaling Concepts in 'Omics Data to Mechanisms in the Nucleus, Regeneration, and Cancer. <i>Annual Review of Biophysics</i> , 2017 , 46, 295-315	21.1	62
227	Elastic-Fluid Model for DNA Damage and Mutation from Nuclear Fluid Segregation Due to Cell Migration. <i>Biophysical Journal</i> , 2017 , 112, 2271-2279	2.9	20
226	Matrix rigidity regulates microtubule network polarization in migration. <i>Cytoskeleton</i> , 2017 , 74, 114-124	42.4	24
225	DNA Damage Follows Repair Factor Depletion and Portends Genome Variation in Cancer Cells after Pore Migration. <i>Current Biology</i> , 2017 , 27, 210-223	6.3	163
224	Optimal Contractile Forces for a Mesenchymal Engine. Developmental Cell, 2017, 42, 313-315	10.2	
223	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	3.5	66
222	Rupture Dynamics and Chromatin Herniation in Deformed Nuclei. <i>Biophysical Journal</i> , 2017 , 113, 1060-7	10.751	26
221	Mitotic progression following DNA damage enables pattern recognition within micronuclei. <i>Nature</i> , 2017 , 548, 466-470	50.4	659
220	Cover Image, Volume 74, Issue 3. <i>Cytoskeleton</i> , 2017 , 74, C1-C1	2.4	
219	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	6.3	65
218	As a Nucleus Enters a Small Pore, Chromatin Stretches and Maintains Integrity, Even with DNA Breaks. <i>Biophysical Journal</i> , 2017 , 112, 446-449	2.9	29
217	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	3.5	43

216	The Nuclear Lamina: From Mechanosensing in Differentiation to Cancer Cell Migration 2016 , 175-195		2
215	Leishmania major Infection-Induced VEGF-A/VEGFR-2 Signaling Promotes Lymphangiogenesis That Controls Disease. <i>Journal of Immunology</i> , 2016 , 197, 1823-31	5.3	18
214	Mechanical signaling coordinates the embryonic heartbeat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8939-44	11.5	34
213	Nuclear constriction segregates mobile nuclear proteins away from chromatin. <i>Molecular Biology of the Cell</i> , 2016 , 27, 4011-4020	3.5	80
212	SnapShot: Mechanosensing Matrix. <i>Cell</i> , 2016 , 165, 1820-1820.e1	56.2	39
211	Nuclear lamins in cancer. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 258-267	3.9	71
210	"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	6.4	12
209	Filomicelles from aromatic diblock copolymers increase paclitaxel-induced tumor cell death and aneuploidy compared with aliphatic copolymers. <i>Nanomedicine</i> , 2016 , 11, 1551-69	5.6	12
208	Mechanotransduction in cancer. Current Opinion in Chemical Engineering, 2016, 11, 77-84	5.4	92
207	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, 951-60	27	91
206	Blood and immune cell engineering: Cytoskeletal contractility and nuclear rheology impact cell lineage and localization: Biophysical regulation of hematopoietic differentiation and trafficking. <i>BioEssays</i> , 2015 , 37, 633-42	4.1	3
205	Macrophage engulfment of a cell or nanoparticle is regulated by unavoidable opsonization, a species-specific 'Marker of Self' CD47, and target physical properties. <i>Current Opinion in Immunology</i> , 2015 , 35, 107-12	7.8	64
204	Molecular Modeling of Block Copolymer Self-Assembly and Micellar Drug Delivery 2015 , 53-80		6
203	Myosin-II repression favors pre/proplatelets but shear activation generates platelets and fails in macrothrombocytopenia. <i>Blood</i> , 2015 , 125, 525-33	2.2	34
202	Cell rigidity and shape override CD47's "self"-signaling in phagocytosis by hyperactivating myosin-II. <i>Blood</i> , 2015 , 125, 542-52	2.2	86
201	The reason sickle reticulocytes expose PS. <i>Blood</i> , 2015 , 126, 1737-8	2.2	5
200	Stem cell mechanobiology: diverse lessons from bone marrow. <i>Trends in Cell Biology</i> , 2015 , 25, 523-32	18.3	80
199	Engineered Donor Marrow Macrophages Phagocytose Cancer Cells and Aggressively Shrink Solid Tumor Xenografts Compared to Tumor Associated Macrophages. <i>Blood</i> , 2015 , 126, 2214-2214	2.2	

198	Combining insoluble and soluble factors to steer stem cell fate. <i>Nature Materials</i> , 2014 , 13, 532-7	27	72
197	Nuclear lamin stiffness is a barrier to 3D migration, but softness can limit survival. <i>Journal of Cell Biology</i> , 2014 , 204, 669-82	7.3	388
196	Material control of stem cell differentiation: challenges in nano-characterization. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 46-50	11.4	23
195	Contractile forces sustain and polarize hematopoiesis from stem and progenitor cells. <i>Cell Stem Cell</i> , 2014 , 14, 81-93	18	91
194	The nuclear lamina is mechano-responsive to ECM elasticity in mature tissue. <i>Journal of Cell Science</i> , 2014 , 127, 3005-15	5.3	143
193	From stealthy polymersomes and filomicelles to "self" Peptide-nanoparticles for cancer therapy. Annual Review of Chemical and Biomolecular Engineering, 2014 , 5, 281-99	8.9	57
192	Matrix elasticity regulates lamin-A,C phosphorylation and turnover with feedback to actomyosin. <i>Current Biology</i> , 2014 , 24, 1909-17	6.3	234
191	Stress sensitivity and mechanotransduction during heart development. Current Biology, 2014, 24, R495	-503	49
190	How deeply cells feel? 2014 ,		1
189	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014 , 190, 29-74	11.7	47
189 188		11.7	1
	authors. Journal of Controlled Release, 2014 , 190, 29-74	2.9	
188	authors. <i>Journal of Controlled Release</i> , 2014 , 190, 29-74 Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival 2014 , Systems mechanobiology: tension-inhibited protein turnover is sufficient to physically control gene	2.9	1
188	A Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival 2014 , Systems mechanobiology: tension-inhibited protein turnover is sufficient to physically control gene circuits. <i>Biophysical Journal</i> , 2014 , 107, 2734-43 Simple insoluble cues specify stem cell differentiation. <i>Proceedings of the National Academy of</i>	2.9	32
188 187 186	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival 2014 , Systems mechanobiology: tension-inhibited protein turnover is sufficient to physically control gene circuits. <i>Biophysical Journal</i> , 2014 , 107, 2734-43 Simple insoluble cues specify stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18104-5 TCR triggering by pMHC ligands tethered on surfaces via poly(ethylene glycol) depends on polymer	2.9	1 32 7
188 187 186	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival 2014, Systems mechanobiology: tension-inhibited protein turnover is sufficient to physically control gene circuits. Biophysical Journal, 2014, 107, 2734-43 Simple insoluble cues specify stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18104-5 TCR triggering by pMHC ligands tethered on surfaces via poly(ethylene glycol) depends on polymer length. PLoS ONE, 2014, 9, e112292 Mechanobiology of bone marrow stem cells: from myosin-II forces to compliance of matrix and	2.9 11.5	1 32 7 25
188 187 186 185	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival 2014, Systems mechanobiology: tension-inhibited protein turnover is sufficient to physically control gene circuits. <i>Biophysical Journal</i> , 2014, 107, 2734-43 Simple insoluble cues specify stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18104-5 TCR triggering by pMHC ligands tethered on surfaces via poly(ethylene glycol) depends on polymer length. <i>PLoS ONE</i> , 2014, 9, e112292 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 Osmotic challenge drives rapid and reversible chromatin condensation in chondrocytes. <i>Biophysical</i>	2.9 11.5 3.7 3.5	1 32 7 25 53

(2012-2013)

180	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, 18892-7	11.5	134
179	Filomicelles in nanomedicine - from flexible, fragmentable, and ligand-targetable drug carrier designs to combination therapy for brain tumors. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5177-5185	7.3	47
178	Probing the structure of PEGylated-lipid assemblies by coarse-grained molecular dynamics. <i>Soft Matter</i> , 2013 , 9, 11549	3.6	23
177	Heart-specific stiffening in early embryos parallels matrix and myosin expression to optimize beating. <i>Current Biology</i> , 2013 , 23, 2434-9	6.3	137
176	Minimal "Self" peptides that inhibit phagocytic clearance and enhance delivery of nanoparticles. <i>Science</i> , 2013 , 339, 971-5	33.3	667
175	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, 7499-508	4	9
174	Adhesion-induced phase behavior of two-component membranes and vesicles. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 2203-29	6.3	8
173	Label-free mass spectrometry exploits dozens of detected peptides to quantify lamins in wildtype and knockdown cells. <i>Nucleus</i> , 2013 , 4, 450-9	3.9	14
172	How Does CD47-SIRP Don Eat Me Signal Physically Signal Self. Blood, 2013, 122, 953-953	2.2	1
171	RhoA is essential for maintaining normal megakaryocyte ploidy and platelet generation. <i>PLoS ONE</i> , 2013 , 8, e69315	3.7	31
170	Enhancing the efficacy of drug-loaded nanocarriers against brain tumors by targeted radiation therapy. <i>Oncotarget</i> , 2013 , 4, 64-79	3.3	43
169	Platelet-Like-Particles Sheared From Myosin-II-Inhibited Megakaryocytes Highlights The Elevated Thrombocrit Of May-Hegglin Anomaly. <i>Blood</i> , 2013 , 122, 2426-2426	2.2	
168	Polymersomes and Filomicelles 2013 , 183-210		1
167	Subcellular organization: change of phase in partitioning the cellular milieu. <i>Current Biology</i> , 2012 , 22, R188-90	6.3	
166	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, 3823-30	24	124
165	Marker-of-self becomes marker-of-senescence. <i>Blood</i> , 2012 , 119, 5343-4	2.2	3
164	Crawling from soft to stiff matrix polarizes the cytoskeleton and phosphoregulates myosin-II heavy chain. <i>Journal of Cell Biology</i> , 2012 , 199, 669-83	7.3	210
163	Degradable Poly(ethylene oxide)-block-polycaprolactone Worm-like Micelles: From Phase Transitions and Molecular Simulation to Persistent Circulation and Shrinking Tumors. <i>ACS Symposium Series</i> , 2012 , 255-285	0.4	

162	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, 1219-25	3.8	17
161	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, 422-30	3.7	95
160	Mechanical force in T cell receptor signal initiation. Frontiers in Immunology, 2012, 3, 217	8.4	20
159	Shear-Optimized Platelet-Like-Particles From High Ploidy Mks: From Segregation to Composition and Activation. <i>Blood</i> , 2012 , 120, 3456-3456	2.2	
158	RhoA Is Essential for Maintaining Normal Megakaryocyte Ploidy Distribution and Platelet Generation. <i>Blood</i> , 2012 , 120, 385-385	2.2	
157	Hierarchical Determination of Nuclear Deformability by Lamin Isoforms During Adult Hematopoiesis: Implications in Blood Cell Trafficking. <i>Blood</i> , 2012 , 120, 1200-1200	2.2	
156	Striated acto-myosin fibers can reorganize and register in response to elastic interactions with the matrix. <i>Biophysical Journal</i> , 2011 , 100, 2706-15	2.9	37
155	Divalent cation-dependent formation of electrostatic PIP2 clusters in lipid monolayers. <i>Biophysical Journal</i> , 2011 , 101, 2178-84	2.9	65
154	Endothelial targeting of antibody-decorated polymeric filomicelles. ACS Nano, 2011, 5, 6991-9	16.7	95
153	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	12	33
152	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, 249-60	6.1	20
151	Bio-inspired, bioengineered and biomimetic drug delivery carriers. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 521-35	64.1	866
150	The effect of CD47 modified polymer surfaces on inflammatory cell attachment and activation. <i>Biomaterials</i> , 2011 , 32, 4317-26	15.6	58
149	Lung vascular targeting through inhalation delivery: insight from filamentous viruses and other shapes. <i>IUBMB Life</i> , 2011 , 63, 607-12	4.7	20
148	Raft registration across bilayers in a molecularly detailed model. <i>Soft Matter</i> , 2011 , 7, 8182	3.6	48
147	Morphologies of charged diblock copolymers simulated with a neutral coarse-grained model. Journal of Physical Chemistry B, 2011 , 115, 4689-95	3.4	15
146	Protein unfolding accounts for the unusual mechanical behavior of fibrin networks. <i>Acta Biomaterialia</i> , 2011 , 7, 2374-83	10.8	59
145	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 11458-63	11.5	66

(2009-2011)

144	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, 8269-74	11.5	30
143	Myosin-II Is a Major Modulator of Human Hematopoietic Stem Cell Proliferation and Differentiation. <i>Blood</i> , 2011 , 118, 2343-2343	2.2	
142	Stem cells feel the difference. <i>Nature Methods</i> , 2010 , 7, 695-7	21.6	82
141	Polymersomes and Wormlike Micelles Made Fluorescent by Direct Modifications of Block Copolymer Amphiphiles. <i>International Journal of Polymer Science</i> , 2010 , 2010, 1-10	2.4	10
140	Mechanical Regulation of Cells by Materials and Tissues. MRS Bulletin, 2010, 35, 578-583	3.2	35
139	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	5.3	307
138	Curvature-coupled hydration of Semicrystalline Polymer Amphiphiles yields flexible Worm Micelles but favors rigid Vesicles: polycaprolactone-based block copolymers. <i>Macromolecules</i> , 2010 , 43, 9736-97	4 5 5	106
137	Self inhibition of phagocytosis: the affinity of 'marker of self' CD47 for SIRPalpha dictates potency of inhibition but only at low expression levels. <i>Blood Cells, Molecules, and Diseases</i> , 2010 , 45, 67-74	2.1	102
136	Physical plasticity of the nucleus and its manipulation. <i>Methods in Cell Biology</i> , 2010 , 98, 207-20	1.8	11
135	How deeply cells feel: methods for thin gels. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 194116	1.8	223
134	Curvature-driven molecular demixing in the budding and breakup of mixed component Worm-like Micelles. <i>Soft Matter</i> , 2010 , 6, 1419-1425	3.6	56
133	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	2.4	15
132	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, 135-41	4.8	31
131	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	1.4	25
130	Myosin-II Plays Central Roles In Cell Life and Death Decisions During Adult Hematopoiesis <i>Blood</i> , 2010 , 116, 1595-1595	2.2	
129	The Foldome in cellular force transduction. <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, 3341-2	0.9	1
128	Nanopolymeric Therapeutics. MRS Bulletin, 2009, 34, 422-431	3.2	48
127	Polymersome delivery of siRNA and antisense oligonucleotides. <i>Journal of Controlled Release</i> , 2009 , 134, 132-40	11.7	154

126	Conformational changes and signaling in cell and matrix physics. Current Biology, 2009, 19, R781-9	6.3	69
125	Stem cells, microenvironment mechanics, and growth factor activation. <i>Current Opinion in Cell Biology</i> , 2009 , 21, 630-5	9	78
124	Biomechanics: cell research and applications for the next decade. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 847-59	4.7	147
123	Matrix strains induced by cells: Computing how far cells can feel. <i>Cellular and Molecular Bioengineering</i> , 2009 , 2, 39-48	3.9	150
122	Spotted vesicles, striped micelles and Janus assemblies induced by ligand binding. <i>Nature Materials</i> , 2009 , 8, 843-9	27	255
121	Filamentous polymer nanocarriers of tunable stiffness that encapsulate the therapeutic enzyme catalase. <i>Biomacromolecules</i> , 2009 , 10, 1324-30	6.9	38
120	Flexible filaments for in vivo imaging and delivery: persistent circulation of filomicelles opens the dosage window for sustained tumor shrinkage. <i>Molecular Pharmaceutics</i> , 2009 , 6, 1343-52	5.6	227
119	Calcium-dependent lateral organization in phosphatidylinositol 4,5-bisphosphate (PIP2)- and cholesterol-containing monolayers. <i>Biochemistry</i> , 2009 , 48, 8241-8	3.2	78
118	Polymersome carriers: from self-assembly to siRNA and protein therapeutics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 71, 463-74	5.7	317
117	Growth factors, matrices, and forces combine and control stem cells. <i>Science</i> , 2009 , 324, 1673-7	33.3	2065
117	Growth factors, matrices, and forces combine and control stem cells. <i>Science</i> , 2009 , 324, 1673-7 Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60	33·3 2.9	2065
Í	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along		
116	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60 Multiscale mechanics of fibrin polymer: gel stretching with protein unfolding and loss of water.	2.9	26
116 115	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60 Multiscale mechanics of fibrin polymer: gel stretching with protein unfolding and loss of water. <i>Science</i> , 2009 , 325, 741-4 Cell differentiation through tissue elasticity-coupled, myosin-driven remodeling. <i>Current Opinion in</i>	2.9	26
116 115 114	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60 Multiscale mechanics of fibrin polymer: gel stretching with protein unfolding and loss of water. <i>Science</i> , 2009 , 325, 741-4 Cell differentiation through tissue elasticity-coupled, myosin-driven remodeling. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 609-15 Cys shotgun labeling of macrophages adhering to and engulfing Ig-opsonized cells. <i>Transfusion</i>	2.9 33·3 9	26 285 78
116 115 114	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60 Multiscale mechanics of fibrin polymer: gel stretching with protein unfolding and loss of water. <i>Science</i> , 2009 , 325, 741-4 Cell differentiation through tissue elasticity-coupled, myosin-driven remodeling. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 609-15 Cys shotgun labeling of macrophages adhering to and engulfing Ig-opsonized cells. <i>Transfusion Clinique Et Biologique</i> , 2008 , 15, 58-61 Organization of Self-Assembled PeptidePolymer Nanofibers in Solution. <i>Macromolecules</i> , 2008 ,	2.9 33·3 9	26 285 78
116 115 114 113	Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. <i>Biophysical Journal</i> , 2009 , 96, 1952-60 Multiscale mechanics of fibrin polymer: gel stretching with protein unfolding and loss of water. <i>Science</i> , 2009 , 325, 741-4 Cell differentiation through tissue elasticity-coupled, myosin-driven remodeling. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 609-15 Cys shotgun labeling of macrophages adhering to and engulfing Ig-opsonized cells. <i>Transfusion Clinique Et Biologique</i> , 2008 , 15, 58-61 Organization of Self-Assembled PeptidePolymer Nanofibers in Solution. <i>Macromolecules</i> , 2008 , 41, 1430-1437 Inhibition of "self" engulfment through deactivation of myosin-II at the phagocytic synapse	2.9 33·3 9 1.9 5·5	26 285 78 1

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