

# Dennis E Discher

## List of Publications by Year in descending order

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Version: 2024-02-01

287  
papers

61,469  
citations

4345

89  
h-index

1056

241  
g-index

301  
all docs

301  
docs citations

301  
times ranked

56542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid droplets displace cytoskeleton & inhibit phagocytosis—implications for dysfunction in obesity. <i>Biophysical Journal</i> , 2022, 121, 518a.	0.2	0
2	Nuclear curvature, rupture, and lamin regulation: relations to tumor proliferation and cancer survival. <i>Biophysical Journal</i> , 2022, 121, 119a.	0.2	0
3	Human CD47-Derived Cyclic Peptides Enhance Engulfment of mAb-Targeted Melanoma by Primary Macrophages. <i>Bioconjugate Chemistry</i> , 2022, 33, 1973-1982.	1.8	2
4	Gaussian curvature dilutes the nuclear lamina, favoring nuclear rupture, especially at high strain rate. <i>Nucleus</i> , 2022, 13, 130-144.	0.6	15
5	Suppressing or Enhancing Macrophage Engulfment through the Use of CD47 and Related Peptides. <i>Bioconjugate Chemistry</i> , 2022, 33, 1989-1995.	1.8	8
6	CD47-SIRP1± Checkpoint Disruption in Metastases Requires Tumor-Targeting Antibody for Molecular and Engineered Macrophage Therapies. <i>Cancers</i> , 2022, 14, 1930.	1.7	5
7	Nuclear mechanoprotection: From tissue atlases as blueprints to distinctive regulation of nuclear lamins. <i>APL Bioengineering</i> , 2022, 6, .	3.3	8
8	Tissue mechanics coevolves with fibrillar matrisomes in healthy and fibrotic tissues. <i>Matrix Biology</i> , 2022, 111, 153-188.	1.5	11
9	Piezo1 and Piezo2 foster mechanical gating of K2P channels. <i>Cell Reports</i> , 2021, 37, 110070.	2.9	10
10	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, .	3.3	15
11	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.	1.5	41
12	Multivalent, Soluble Nano-Self Peptides Increase Phagocytosis of Antibody-Opsonized Targets while Suppressing —Self—Signaling. <i>ACS Nano</i> , 2020, 14, 15083-15093.	7.3	12
13	Macrophage checkpoint blockade: results from initial clinical trials, binding analyses, and CD47-SIRP1± structure—function. <i>Antibody Therapeutics</i> , 2020, 3, 80-94.	1.2	73
14	Lipid Droplets Deform Nucleus and Cause Mislocalization of DNA Repair Factors. <i>Biophysical Journal</i> , 2020, 118, 283a-284a.	0.2	0
15	Heterogeneously Strained Tissue Collagen Resists Collagenase Degradation Where Strains are High. <i>Biophysical Journal</i> , 2020, 118, 398a.	0.2	0
16	Macrophages show higher levels of engulfment after disruption of cis interactions between CD47 and the checkpoint receptor SIRP1±. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	33
17	From DNA damage to epithelial integrity: new roles for cell forces. <i>Molecular Biology of the Cell</i> , 2019, 30, 1879-1881.	0.9	2
18	Pulling the Roof Down on Anchored Nuclei. <i>Developmental Cell</i> , 2019, 50, 130-131.	3.1	0

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19	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.	2.3	76
20	The macrophage checkpoint CD47 : SIRP $\alpha$ 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.	1.8	32
21	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.	2.1	23
22	Constricted migration modulates stem cell differentiation. <i>Molecular Biology of the Cell</i> , 2019, 30, 1985-1999.	0.9	23
23	Mechanosensing by the Lamina Protects against Nuclear Rupture, DNA Damage, and Cell-Cycle Arrest. <i>Developmental Cell</i> , 2019, 49, 920-935.e5.	3.1	217
24	Scaling laws indicate distinct nucleation mechanisms of holes in the nuclear lamina. <i>Nature Physics</i> , 2019, 15, 823-829.	6.5	21
25	Inhibiting Tumor Fibrosis and Actomyosin through GPCR activation. <i>Trends in Cancer</i> , 2019, 5, 197-199.	3.8	6
26	Nuclear mechanics during and after constricted migration. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 299-308.	1.5	20
27	Forced Unfolding of Proteins Directs Biochemical Cascades. <i>Biochemistry</i> , 2019, 58, 4893-4902.	1.2	21
28	Mesenchymal stem cell perspective: cell biology to clinical progress. <i>Npj Regenerative Medicine</i> , 2019, 4, 22.	2.5	1,113
29	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.	1.5	10
30	Manipulating the mechanics of extracellular matrix to study effects on the nucleus and its structure. <i>Methods</i> , 2019, 157, 3-14.	1.9	3
31	Nuclear Mechanics and Cancer Cell Migration. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1146, 117-130.	0.8	15
32	Polymersomes. , 2019, , 537-550.		0
33	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.	1.8	15
34	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.	0.6	35
35	Glassy worm-like micelles in solvent and shear mediated shape transitions. <i>Soft Matter</i> , 2018, 14, 4194-4203.	1.2	6
36	Cell "Extracellular Matrix Mechanobiology: Forceful Tools and Emerging Needs for Basic and Translational Research. <i>Nano Letters</i> , 2018, 18, 1-8.	4.5	103

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37	Rationally engineered advances in cancer research. <i>APL Bioengineering</i> , 2018, 2, 031601.	3.3	2
38	Biomembrane Mechanical Properties Direct Diverse Cell Functions. , 2018, , 263-285.		1
39	Nuclear mechanosensing. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 713-725.	1.1	17
40	Biomembrane Adhesion to Substrates Topographically Patterned with Nanopits. <i>Biophysical Journal</i> , 2018, 115, 1292-1306.	0.2	7
41	Nuclear rupture at sites of high curvature compromises retention of DNA repair factors. <i>Journal of Cell Biology</i> , 2018, 217, 3796-3808.	2.3	134
42	Membrane fluctuations and acidosis regulate cooperative binding of $\alpha$ 6 $\beta$ 1 integrin with macrophage checkpoint receptor SIRP $\alpha$ . <i>Journal of Cell Science</i> , 2018, 132, .	1.2	45
43	Constricted migration increases DNA damage and independently represses cell cycle. <i>Molecular Biology of the Cell</i> , 2018, 29, 1948-1962.	0.9	101
44	Stem Cell Differentiation is Regulated by Extracellular Matrix Mechanics. <i>Physiology</i> , 2018, 33, 16-25.	1.6	191
45	Matrix Rigidity Myosin-II and Lamin-A Regulate Curvature Induced Nuclear Rupture Causing Repair Factor Mislocalization and DNA Damage. <i>Biophysical Journal</i> , 2018, 114, 515a.	0.2	0
46	Mechanosensing by the nucleus: From pathways to scaling relationships. <i>Journal of Cell Biology</i> , 2017, 216, 305-315.	2.3	301
47	Persistence-Driven Durotaxis: Generic, Directed Motility in Rigidity Gradients. <i>Physical Review Letters</i> , 2017, 118, 078103.	2.9	58
48	Genome variation across cancers scales with tissue stiffness $\alpha$ 6 $\beta$ 1 An invasion-mutation mechanism and implications for immune cell infiltration. <i>Current Opinion in Systems Biology</i> , 2017, 2, 103-114.	1.3	50
49	Spray stability of self-assembled filaments for delivery. <i>Journal of Controlled Release</i> , 2017, 263, 162-171.	4.8	8
50	Engineering macrophages to eat cancer: from $\alpha$ 6 $\beta$ 1 and phagocytosis to differentiation. <i>Journal of Leukocyte Biology</i> , 2017, 102, 31-40.	1.5	51
51	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.	2.3	61
52	Matrix Mechanosensing: From Scaling Concepts in $\alpha$ 6 $\beta$ 1 Omics Data to Mechanisms in the Nucleus, Regeneration, and Cancer. <i>Annual Review of Biophysics</i> , 2017, 46, 295-315.	4.5	89
53	Elastic-Fluid Model for DNA Damage and Mutation from Nuclear Fluid Segregation Due to Cell Migration. <i>Biophysical Journal</i> , 2017, 112, 2271-2279.	0.2	21
54	Matrix rigidity regulates microtubule network polarization in migration. <i>Cytoskeleton</i> , 2017, 74, 114-124.	1.0	32

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55	DNA Damage Follows Repair Factor Depletion and Portends Genome Variation in Cancer Cells after Pore Migration. <i>Current Biology</i> , 2017, 27, 210-223.	1.8	239
56	Optimal Contractile Forces for a Mesenchymal Engine. <i>Developmental Cell</i> , 2017, 42, 313-315.	3.1	0
57	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.	0.9	94
58	Rupture Dynamics and Chromatin Herniation in Deformed Nuclei. <i>Biophysical Journal</i> , 2017, 113, 1060-1071.	0.2	33
59	Mitotic progression following DNA damage enables pattern recognition within micronuclei. <i>Nature</i> , 2017, 548, 466-470.	13.7	1,042
60	Cover Image, Volume 74, Issue 3. <i>Cytoskeleton</i> , 2017, 74, C1-C1.	1.0	0
61	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.	1.8	99
62	As a Nucleus Enters a Small Pore, Chromatin Stretches and Maintains Integrity, Even with DNA Breaks. <i>Biophysical Journal</i> , 2017, 112, 446-449.	0.2	41
63	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.	0.9	59
64	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.	1.8	18
65	Filomicelles from aromatic diblock copolymers increase paclitaxel-induced tumor cell death and aneuploidy compared with aliphatic copolymers. <i>Nanomedicine</i> , 2016, 11, 1551-1569.	1.7	17
66	Mechanotransduction in cancer. <i>Current Opinion in Chemical Engineering</i> , 2016, 11, 77-84.	3.8	138
67	The Nuclear Lamina: From Mechanosensing in Differentiation to Cancer Cell Migration. , 2016, , 175-195.		3
68	<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.	0.4	27
69	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.	3.3	46
70	Nuclear constriction segregates mobile nuclear proteins away from chromatin. <i>Molecular Biology of the Cell</i> , 2016, 27, 4011-4020.	0.9	104
71	SnapShot: Mechanosensing Matrix. <i>Cell</i> , 2016, 165, 1820-1820.e1.	13.5	51
72	Nuclear Lamins in Cancer. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 258-267.	1.0	95

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73	Filovirus Mimics Deliver Effectively. <i>Biophysical Journal</i> , 2016, 110, 504a.	0.2	0
74	Myosin-II repression favors pre/proplatelets but shear activation generates platelets and fails in macrothrombocytopenia. <i>Blood</i> , 2015, 125, 525-533.	0.6	38
75	Cell rigidity and shape override CD47's "self" signaling in phagocytosis by hyperactivating myosin-II. <i>Blood</i> , 2015, 125, 542-552.	0.6	122
76	The reason sickle reticulocytes expose PS. <i>Blood</i> , 2015, 126, 1737-1738.	0.6	5
77	Nuclear Damage in Highly Constrained Migration: From Lamina Defects to DNA Breaks. <i>Biophysical Journal</i> , 2015, 108, 115a-116a.	0.2	0
78	Stem cell mechanobiology: diverse lessons from bone marrow. <i>Trends in Cell Biology</i> , 2015, 25, 523-532.	3.6	103
79	Systems Mechano-Biology: Tension-Inhibited Protein Turnover is Sufficient to Physically Control Gene Circuits. <i>Biophysical Journal</i> , 2015, 108, 365a-366a.	0.2	1
80	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.	13.3	108
81	Blood and immune cell engineering: Cytoskeletal contractility and nuclear rheology impact cell lineage and localization. <i>BioEssays</i> , 2015, 37, 633-642.	1.2	4
82	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, 107-112.	2.4	85
83	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.	0.6	0
84	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.	4.8	394
85	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival. , 2014, , .		2
86	Systems Mechanobiology: Tension-Inhibited Protein Turnover Is Sufficient to Physically Control Gene Circuits. <i>Biophysical Journal</i> , 2014, 107, 2734-2743.	0.2	40
87	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.	3.3	10
88	Combining insoluble and soluble factors to steer stem cell fate. <i>Nature Materials</i> , 2014, 13, 532-537.	13.3	76
89	Nuclear lamin stiffness is a barrier to 3D migration, but softness can limit survival. <i>Journal of Cell Biology</i> , 2014, 204, 669-682.	2.3	512
90	Material control of stem cell differentiation: challenges in nano-characterization. <i>Current Opinion in Biotechnology</i> , 2014, 28, 46-50.	3.3	29

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91	Contractile Forces Sustain and Polarize Hematopoiesis from Stem and Progenitor Cells. <i>Cell Stem Cell</i> , 2014, 14, 81-93.	5.2	114
92	The nuclear lamina is mechano-responsive to ECM elasticity in mature tissue. <i>Journal of Cell Science</i> , 2014, 127, 3005-15.	1.2	170
93	From Stealthy Polymersomes and Filomicelles to "Self" Peptide-Nanoparticles for Cancer Therapy. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 281-299.	3.3	68
94	Matrix Elasticity Regulates Lamin-A,C Phosphorylation and Turnover with Feedback to Actomyosin. <i>Current Biology</i> , 2014, 24, 1909-1917.	1.8	320
95	Stress Sensitivity and Mechanotransduction during Heart Development. <i>Current Biology</i> , 2014, 24, R495-R501.	1.8	56
96	How deeply cells feel?. , 2014, , .		1
97	TCR Triggering by pMHC Ligands Tethered on Surfaces via Poly(Ethylene Glycol) Depends on Polymer Length. <i>PLoS ONE</i> , 2014, 9, e112292.	1.1	46
98	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.	1.0	58
99	Osmotic Challenge Drives Rapid and Reversible Chromatin Condensation in Chondrocytes. <i>Biophysical Journal</i> , 2013, 104, 759-769.	0.2	105
100	Domain formation in cholesterol phospholipid membranes exposed to adhesive surfaces or environments. <i>Soft Matter</i> , 2013, 9, 8438.	1.2	22
101	Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. <i>Science</i> , 2013, 341, 1240104.	6.0	1,595
102	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.	3.3	165
103	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.	2.9	58
104	Probing the structure of PEGylated-lipid assemblies by coarse-grained molecular dynamics. <i>Soft Matter</i> , 2013, 9, 11549.	1.2	27
105	Heart-Specific Stiffening in Early Embryos Parallels Matrix and Myosin Expression to Optimize Beating. <i>Current Biology</i> , 2013, 23, 2434-2439.	1.8	176
106	Cysteine-Shotgun Mass Spectrometry (CS-MS) for Probing Nuclear Lamin Conformation during Mechanical Stress. <i>Biophysical Journal</i> , 2013, 104, 19a.	0.2	1
107	"Marker of Self"™, CD47, Modulates Mechanical Forces Imposed by Macrophages during Phagocytosis. <i>Biophysical Journal</i> , 2013, 104, 480a.	0.2	0
108	Minimal "Self" Peptides That Inhibit Phagocytic Clearance and Enhance Delivery of Nanoparticles. <i>Science</i> , 2013, 339, 971-975.	6.0	809

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109	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.	1.6	9
110	Adhesion-Induced Phase Behavior of Two-Component Membranes and Vesicles. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2203-2229.	1.8	9
111	Label-free mass spectrometry exploits dozens of detected peptides to quantify lamins in wildtype and knockdown cells. <i>Nucleus</i> , 2013, 4, 450-459.	0.6	16
112	Polymersomes and Filomicelles. , 2013, , 183-210.		1
113	How Does CD47-SIRP $\alpha$ $\hat{=}$ Don $\hat{=}$ Eat Me Signal $\hat{=}$ Physically Signal Self. <i>Blood</i> , 2013, 122, 953-953.	0.6	1
114	RhoA Is Essential for Maintaining Normal Megakaryocyte Ploidy and Platelet Generation. <i>PLoS ONE</i> , 2013, 8, e69315.	1.1	34
115	Enhancing the Efficacy of Drug-loaded Nanocarriers against Brain Tumors by Targeted Radiation Therapy. <i>Oncotarget</i> , 2013, 4, 64-79.	0.8	51
116	Platelet-Like-Particles Sheared From Myosin-II-Inhibited Megakaryocytes Highlights The Elevated Thrombocrit Of May-Hegglin Anomaly. <i>Blood</i> , 2013, 122, 2426-2426.	0.6	0
117	Platelet generation under shear force modulated by site-specific phosphorylation of myosin-IIA heavy chain. , 2012, , .		0
118	Marker-of-self becomes marker-of-senescence. <i>Blood</i> , 2012, 119, 5343-5344.	0.6	3
119	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.	2.3	249
120	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.	0.5	0
121	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.	1.4	19
122	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.	0.6	107
123	Soft gels select tumorigenic cells. <i>Nature Materials</i> , 2012, 11, 662-663.	13.3	11
124	Mechanical Force in T Cell Receptor Signal Initiation. <i>Frontiers in Immunology</i> , 2012, 3, 217.	2.2	25
125	Subcellular Organization: Change of Phase in Partitioning the Cellular Milieu. <i>Current Biology</i> , 2012, 22, R188-R190.	1.8	0
126	Nanoparticle Shape Improves Delivery: Rational Coarse Grain Molecular Dynamics (rCG $\hat{=}$ MD) of Taxol $\hat{=}$ Worm $\hat{=}$ Like PEG $\hat{=}$ PCL Micelles. <i>Advanced Materials</i> , 2012, 24, 3823-3830.	11.1	136



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127	Shear-Optimized Platelet-Like-Particles From High Ploidy Mks: From Segregation to Composition and Activation. <i>Blood</i> , 2012, 120, 3456-3456.	0.6	0
128	RhoA Is Essential for Maintaining Normal Megakaryocyte Ploidy Distribution and Platelet Generation. <i>Blood</i> , 2012, 120, 385-385.	0.6	0
129	Hierarchical Determination of Nuclear Deformability by Lamin Isoforms During Adult Hematopoiesis: Implications in Blood Cell Trafficking. <i>Blood</i> , 2012, 120, 1200-1200.	0.6	0
130	Raft registration across bilayers in a molecularly detailed model. <i>Soft Matter</i> , 2011, 7, 8182.	1.2	51
131	Morphologies of Charged Diblock Copolymers Simulated with a Neutral Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4689-4695.	1.2	16
132	Striated Acto-Myosin Fibers Can Reorganize and Register in Response to Elastic Interactions with the Matrix. <i>Biophysical Journal</i> , 2011, 100, 2706-2715.	0.2	42
133	Divalent Cation-Dependent Formation of Electrostatic PIP2 Clusters in Lipid Monolayers. <i>Biophysical Journal</i> , 2011, 101, 2178-2184.	0.2	75
134	Endothelial Targeting of Antibody-Decorated Polymeric Filomicelles. <i>ACS Nano</i> , 2011, 5, 6991-6999.	7.3	102
135	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.	5.6	33
136	Bubble wrap of cell-like aggregates. <i>Nature</i> , 2011, 471, 172-173.	13.7	14
137	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.	1.6	24
138	Bio-inspired, bioengineered and biomimetic drug delivery carriers. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 521-535.	21.5	1,038
139	The effect of CD47 modified polymer surfaces on inflammatory cell attachment and activation. <i>Biomaterials</i> , 2011, 32, 4317-4326.	5.7	71
140	Lung vascular targeting through inhalation delivery: Insight from filamentous viruses and other shapes. <i>IUBMB Life</i> , 2011, 63, 607-612.	1.5	27
141	Protein unfolding accounts for the unusual mechanical behavior of fibrin networks. <i>Acta Biomaterialia</i> , 2011, 7, 2374-2383.	4.1	75
142	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.	3.3	74
143	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.	3.3	39
144	Myosin-II Is a Major Modulator of Human Hematopoietic Stem Cell Proliferation and Differentiation. <i>Blood</i> , 2011, 118, 2343-2343.	0.6	0

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145	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.	1.0	20
146	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.	2.0	33
147	Stem cells feel the difference. <i>Nature Methods</i> , 2010, 7, 695-697.	9.0	86
148	Polymersomes and Wormlike Micelles Made Fluorescent by Direct Modifications of Block Copolymer Amphiphiles. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-10.	1.2	10
149	Mechanical Regulation of Cells by Materials and Tissues. <i>MRS Bulletin</i> , 2010, 35, 578-583.	1.7	37
150	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.	1.2	349
151	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.	2.2	111
152	Self inhibition of phagocytosis: The affinity of a marker of self CD47 for SIRP $\alpha$ dictates potency of inhibition but only at low expression levels. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 45, 67-74.	0.6	121
153	Physical Plasticity of the Nucleus and its Manipulation. <i>Methods in Cell Biology</i> , 2010, 98, 207-220.	0.5	17
154	How deeply cells feel: methods for thin gels. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194116.	0.7	264
155	Matrix elasticity in vitro controls muscle stem cell fate in vivo. <i>Stem Cell Research and Therapy</i> , 2010, 1, 38.	2.4	21
156	Curvature-driven molecular demixing in the budding and breakup of mixed component worm-like micelles. <i>Soft Matter</i> , 2010, 6, 1419.	1.2	59
157	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.	0.4	29
158	Myosin-II Plays Central Roles In Cell Life and Death Decisions During Adult Hematopoiesis.. <i>Blood</i> , 2010, 116, 1595-1595.	0.6	0
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