

Matching material and cellular timescales maximizes cell growth on substrates

Proceedings of the National Academy of Sciences of the United States of America
115, E2686-E2695

DOI: [10.1073/pnas.1716620115](https://doi.org/10.1073/pnas.1716620115)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Tissue engineering the cancer microenvironmentâ€”challenges and opportunities. <i>Biophysical Reviews</i> , 2018, 10, 1695-1711.	1.5	47
2	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , 2018, 4, 85.	2.1	68
3	Vascular Endothelial Cell Behavior in Complex Mechanical Microenvironments. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3818-3842.	2.6	34
4	Recent Advances in Engineering the Stem Cell Microniche in 3D. <i>Advanced Science</i> , 2018, 5, 1800448.	5.6	83
5	3D Spatiotemporal Mechanical Microenvironment: A Hydrogelâ€Based Platform for Guiding Stem Cell Fate. <i>Advanced Materials</i> , 2018, 30, e1705911.	11.1	162
6	Design of synthetic extracellular matrices for probing breast cancer cell growth using robust cytocompatible nucleophilic thiol-yne addition chemistry. <i>Biomaterials</i> , 2018, 178, 435-447.	5.7	25
7	Viscoelasticity in natural tissues and engineered scaffolds for tissue reconstruction. <i>Acta Biomaterialia</i> , 2019, 97, 74-92.	4.1	88
8	Subtle Regulation of Scaffold Stiffness for the Optimized Control of Cell Behavior. <i>ACS Applied Bio Materials</i> , 2019, 2, 3108-3119.	2.3	25
9	Mechanosensing tensile solid stresses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21960-21962.	3.3	7
10	Emerging technologies in mechanotransduction research. <i>Current Opinion in Chemical Biology</i> , 2019, 53, 125-130.	2.8	19
11	Spatiotemporal Control of Viscoelasticity in Phototunable Hyaluronic Acid Hydrogels. <i>Biomacromolecules</i> , 2019, 20, 4126-4134.	2.6	81
12	Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019, 76, 571-585.	1.0	7
13	Building a microfluidic cell culture platform with stiffness control using Loctite 3525 glue. <i>Lab on A Chip</i> , 2019, 19, 3512-3525.	3.1	9
14	Stick-slip dynamics of migrating cells on viscoelastic substrates. <i>Physical Review E</i> , 2019, 100, 012409.	0.8	18
15	Dynamic freedom: substrate stress relaxation stimulates cell responses. <i>Biomaterials Science</i> , 2019, 7, 836-842.	2.6	49
16	Lost in mechanobiology, what's next?: Missing tools related to the physics of the system. <i>Biology of the Cell</i> , 2019, 111, 213-215.	0.7	1
17	Mechanobiology of Macrophages: How Physical Factors Coregulate Macrophage Plasticity and Phagocytosis. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 267-297.	5.7	148
18	Integrins as biomechanical sensors of the microenvironment. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 457-473.	16.1	768

#	ARTICLE	IF	CITATIONS
19	Dynamic Mechanics-Modulated Hydrogels to Regulate the Differentiation of Stem-Cell Spheroids in Soft Microniches and Modeling of the Nonlinear Behavior. <i>Small</i> , 2019, 15, e1901920.	5.2	44
20	Mechanotransduction and Growth Factor Signaling in Hydrogel-Based Microenvironments. , 2019, , 87-87.		1
21	Dynamic fibroblast contractions attract remote macrophages in fibrillar collagen matrix. <i>Nature Communications</i> , 2019, 10, 1850.	5.8	167
22	Mechanical Model for Durotactic Cell Migration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3954-3963.	2.6	10
23	From mechanical resilience to active material properties in biopolymer networks. <i>Nature Reviews Physics</i> , 2019, 1, 249-263.	11.9	111
24	Biphasic mechanosensitivity of T cell receptor-mediated spreading of lymphocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5908-5913.	3.3	55
25	Diffusive-stochastic-viscoelastic model for specific adhesion of viscoelastic solids via molecular bonds. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 343-354.	1.5	4
26	Complex Salt Dependence of Polymer Diffusion in Polyelectrolyte Multilayers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 987-992.	2.1	23
27	Distinct relaxation timescales of neurites revealed by rate-dependent indentation, relaxation and micro-rheology tests. <i>Soft Matter</i> , 2019, 15, 166-174.	1.2	10
28	Temperature-dependent structure and compressive mechanical behavior of alginate/polyethylene oxide-poly(propylene oxide)-poly(ethylene oxide) hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 834-844.	1.6	11
29	Opposite responses of normal hepatocytes and hepatocellular carcinoma cells to substrate viscoelasticity. <i>Biomaterials Science</i> , 2020, 8, 1316-1328.	2.6	44
30	The Plot Thickens: The Emerging Role of Matrix Viscosity in Cell Mechanotransduction. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901259.	3.9	75
31	Stiffness Sensing by Cells. <i>Physiological Reviews</i> , 2020, 100, 695-724.	13.1	227
32	Engineering Biomaterials and Approaches for Mechanical Stretching of Cells in Three Dimensions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 589590.	2.0	21
33	Progress in the mechanical modulation of cell functions in tissue engineering. <i>Biomaterials Science</i> , 2020, 8, 7033-7081.	2.6	36
34	Hydrogel Micropost Arrays with Single Post Tunability to Study Cell Volume and Mechanotransduction. <i>Advanced Biology</i> , 2020, 4, e2000012.	3.0	11
35	Extracellular matrix plasticity as a driver of cell spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25999-26007.	3.3	65
36	Biomaterials-Based Model Systems to Study Tumor-Microenvironment Interactions. , 2020, , 1217-1236.		4

#	ARTICLE	IF	CITATIONS
37	Effects of extracellular matrix viscoelasticity on cellular behaviour. <i>Nature</i> , 2020, 584, 535-546.	13.7	1,045
38	Calcium Signaling Regulates Valvular Interstitial Cell Alignment and Myofibroblast Activation in Fast-Relaxing Boronate Hydrogels. <i>Macromolecular Bioscience</i> , 2020, 20, e2000268.	2.1	19
39	Substrate Resistance to Traction Forces Controls Fibroblast Polarization. <i>Biophysical Journal</i> , 2020, 119, 2558-2572.	0.2	10
40	Forcing a growth factor response " tissue-stiffness modulation of integrin signaling and crosstalk with growth factor receptors. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	20
41	Obesity-Associated Adipose Stromal Cells Promote Breast Cancer Invasion through Direct Cell Contact and ECM Remodeling. <i>Advanced Functional Materials</i> , 2020, 30, 1910650.	7.8	30
42	Ligand Diffusion Enables Force-Independent Cell Adhesion via Activating $\beta 1$ Integrin and Initiating Rac and RhoA Signaling. <i>Advanced Materials</i> , 2020, 32, e2002566.	11.1	50
43	Spatiotemporally Controlled Photoresponsive Hydrogels: Design and Predictive Modeling from Processing through Application. <i>Advanced Functional Materials</i> , 2020, 30, 2000639.	7.8	51
44	Substrate Dissipation Energy Regulates Cell Adhesion and Spreading. <i>Advanced Functional Materials</i> , 2020, 30, 2001977.	7.8	27
45	Engineered Biomaterial Platforms to Study Fibrosis. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901682.	3.9	53
46	Tough Anisotropic Silk Nanofiber Hydrogels with Osteoinductive Capacity. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2357-2367.	2.6	31
47	Fundamental Characteristics of Neuron Adhesion Revealed by Forced Peeling and Time-Dependent Healing. <i>Biophysical Journal</i> , 2020, 118, 1811-1819.	0.2	10
48	Predicting Confined 1D Cell Migration from Parameters Calibrated to a 2D Motor-Clutch Model. <i>Biophysical Journal</i> , 2020, 118, 1709-1720.	0.2	20
49	Multi-scale cellular engineering: From molecules to organ-on-a-chip. <i>APL Bioengineering</i> , 2020, 4, 010906.	3.3	8
50	Fibrillar Collagen Type I Participates in the Survival and Aggregation of Primary Hepatocytes Cultured on Soft Hydrogels. <i>Biomimetics</i> , 2020, 5, 30.	1.5	8
51	Dynamic Bioinks to Advance Bioprinting. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901798.	3.9	141
52	New perspectives on integrin-dependent adhesions. <i>Current Opinion in Cell Biology</i> , 2020, 63, 31-37.	2.6	67
53	Hierarchical and heterogeneous hydrogel system as a promising strategy for diversified interfacial tissue regeneration. <i>Biomaterials Science</i> , 2021, 9, 1547-1573.	2.6	17
54	Elasticity-dependent response of malignant cells to viscous dissipation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 145-154.	1.4	14

#	ARTICLE	IF	CITATIONS
56	Modulation of hydrogel stiffness by external stimuli: soft materials for mechanotransduction studies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7578-7596.	2.9	22
57	Mechanotransduction, nanotechnology, and nanomedicine. <i>Journal of Biomedical Research</i> , 2021, 35, 284.	0.7	7
58	Microscopic local stiffening in a supramolecular hydrogel network expedites stem cell mechanosensing in 3D and bone regeneration. <i>Materials Horizons</i> , 2021, 8, 1722-1734.	6.4	62
59	A Novel Method to Make Polyacrylamide Gels with Mechanical Properties Resembling those of Biological Tissues. <i>Bio-protocol</i> , 2021, 11, e4131.	0.2	5
60	Viscoelasticity of 3D actin networks dictated by the mechanochemical characteristics of cross-linkers. <i>Soft Matter</i> , 2021, 17, 10177-10185.	1.2	3
61	Tailoring Cellular Function: The Contribution of the Nucleus in Mechanotransduction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 596746.	2.0	16
62	The nuclear piston activates mechanosensitive ion channels to generate cell migration paths in confining microenvironments. <i>Science Advances</i> , 2021, 7, .	4.7	45
64	Determination by Relaxation Tests of the Mechanical Properties of Soft Polyacrylamide Gels Made for Mechanobiology Studies. <i>Polymers</i> , 2021, 13, 629.	2.0	8
65	The matrix in cancer. <i>Nature Reviews Cancer</i> , 2021, 21, 217-238.	12.8	441
66	Viscoelastic Cell Microenvironment: Hydrogel-Based Strategy for Recapitulating Dynamic ECM Mechanics. <i>Advanced Functional Materials</i> , 2021, 31, 2100848.	7.8	80
67	A dysfunctional TRPV4-GSK3 β pathway prevents osteoarthritic chondrocytes from sensing changes in extracellular matrix viscoelasticity. <i>Nature Biomedical Engineering</i> , 2021, 5, 1472-1484.	11.6	42
70	Enhanced substrate stress relaxation promotes filopodia-mediated cell migration. <i>Nature Materials</i> , 2021, 20, 1290-1299.	13.3	111
72	Recursive feedback between matrix dissipation and chemo-mechanical signaling drives oscillatory growth of cancer cell invadopodia. <i>Cell Reports</i> , 2021, 35, 109047.	2.9	14
73	Mechanical characterization of soft silicone gels via spherical nanoindentation for applications in mechanobiology. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 554-561.	1.5	9
74	Cytoskeletal prestress: The cellular hallmark in mechanobiology and mechanomedicine. <i>Cytoskeleton</i> , 2021, 78, 249-276.	1.0	28
75	Tuning Viscoelasticity in Alginate Hydrogels for 3D Cell Culture Studies. <i>Current Protocols</i> , 2021, 1, e124.	1.3	34
76	Modelling cellular spreading and emergence of motility in the presence of curved membrane proteins and active cytoskeleton forces. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	20
77	Enhancing Biopolymer Hydrogel Functionality through Interpenetrating Networks. <i>Trends in Biotechnology</i> , 2021, 39, 519-538.	4.9	138

#	ARTICLE	IF	CITATIONS
78	Multiwell Combinatorial Hydrogel Array for High-Throughput Analysis of Cell-ECM Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2453-2465.	2.6	6
79	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021, 121, 11149-11193.	23.0	161
80	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021, 12, 3514.	5.8	92
81	Sex-Specific Response to Combinations of Shear Stress and Substrate Stiffness by Endothelial Cells In Vitro. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100735.	3.9	12
82	The Combined Influence of Viscoelastic and Adhesive Cues on Fibroblast Spreading and Focal Adhesion Organization. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 427-440.	1.0	21
83	Hydrogels with Tunable Physical Cues and Their Emerging Roles in Studies of Cellular Mechanotransduction. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100059.	1.7	9
84	Mechanical Regulation of Epithelial Tissue Homeostasis. <i>Physical Review X</i> , 2021, 11, .	2.8	6
85	Cancer cell migration in collagen-hyaluronan composite extracellular matrices. <i>Acta Biomaterialia</i> , 2021, 130, 183-198.	4.1	10
86	The Fibrillar Matrix: Novel Avenues for Breast Cancer Detection and Treatment. <i>Engineering</i> , 2021, 7, 1375-1380.	3.2	1
87	Soft overcomes the hard: Flexible materials adapt to cell adhesion to promote cell mechanotransduction. <i>Bioactive Materials</i> , 2022, 10, 397-404.	8.6	41
88	Transplantation of 3D bio-printed cardiac mesh improves cardiac function and vessel formation via ANGPT1/Tie2 pathway in rats with acute myocardial infarction. <i>Biofabrication</i> , 2021, 13, 045014.	3.7	12
89	Characterizing and Engineering Biomimetic Materials for Viscoelastic Mechanotransduction Studies. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 912-925.	2.5	19
90	Mechanics of 3D Cell-ECM Hydrogel Interactions: Experiments, Models, and Mechanisms. <i>Chemical Reviews</i> , 2021, 121, 11085-11148.	23.0	62
91	Decoding mechanical cues by molecular mechanotransduction. <i>Current Opinion in Cell Biology</i> , 2021, 72, 72-80.	2.6	27
92	The extracellular matrix viscoelasticity as a regulator of cell and tissue dynamics. <i>Current Opinion in Cell Biology</i> , 2021, 72, 10-18.	2.6	79
93	Fibrin prestress due to platelet aggregation and contraction increases clot stiffness. <i>Biophysical Reports</i> , 2021, 1, 100022.	0.7	4
94	Click-functionalized hydrogel design for mechanobiology investigations. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 670-707.	1.7	15
95	Biophysical origins of viscoelasticity during collective cell migration. , 2021, , 47-77.		1

#	ARTICLE	IF	CITATIONS
96	Substrate Viscoelasticity Amplifies Distinctions between Transient and Persistent LPS-Induced Signals. SSRN Electronic Journal, 0, , .	0.4	0
100	The Effects of Stiffness, Fluid Viscosity, and Geometry of Microenvironment in Homeostasis, Aging, and Diseases: A Brief Review. Journal of Biomechanical Engineering, 2020, 142, .	0.6	24
101	Surface-controlled spatially heterogeneous physical properties of a supramolecular gel with homogeneous chemical composition. Chemical Science, 2021, 12, 14260-14269.	3.7	7
102	Tuning Hydrogels by Mixing Dynamic Cross-Links: Enabling Cell-Instructive Hydrogels and Advanced Bioinks. Advanced Healthcare Materials, 2022, 11, e2101576.	3.9	34
106	Rheological characterization of poly-dimethyl siloxane formulations with tunable viscoelastic properties. RSC Advances, 2021, 11, 35910-35917.	1.7	4
107	Mechanistically Scoping Cell-Free and Cell-Dependent Artificial Scaffolds in Rebuilding Skeletal and Dental Hard Tissues. Advanced Materials, 2022, 34, e2107922.	11.1	5
108	Injectable, viscoelastic hydrogel precisely regulates developmental tissue regeneration. Chemical Engineering Journal, 2022, 434, 133860.	6.6	11
109	Mechanical communication in fibrosis progression. Trends in Cell Biology, 2022, 32, 70-90.	3.6	63
110	Lose the Stress: Viscoelastic Materials for Cell Engineering. SSRN Electronic Journal, 0, , .	0.4	2
111	Dynamic and reconfigurable materials from reversible network interactions. Nature Reviews Materials, 2022, 7, 541-556.	23.3	105
112	Vimentin Intermediate Filaments Mediate Cell Morphology on Viscoelastic Substrates. ACS Applied Bio Materials, 2022, 5, 552-561.	2.3	21
113	Multiscale mechanobiology: Coupling models of adhesion kinetics and nonlinear tissue mechanics. Biophysical Journal, 2022, 121, 525-539.	0.2	15
114	Cell's extracellular matrix dynamics. Physical Biology, 2022, 19, 021002.	0.8	37
115	Surface Viscosity-Dependent Neurite Initiation in Cortical Neurons. Advanced Biology, 2022, 6, e2101325.	1.4	2
116	Ligand Mobility-Mediated Cell Adhesion and Spreading. ACS Applied Materials & Interfaces, 2022, 14, 12976-12983.	4.0	12
117	Phase field model for cell spreading dynamics. Journal of Mathematical Biology, 2022, 84, 32.	0.8	2
118	Cell's 3D matrix interactions: recent advances and opportunities. Trends in Cell Biology, 2022, 32, 883-895.	3.6	51
119	Smart biomaterial platforms: Controlling and being controlled by cells. Biomaterials, 2022, 283, 121450.	5.7	12

#	ARTICLE	IF	CITATIONS
120	Lose the stress: Viscoelastic materials for cell engineering. <i>Acta Biomaterialia</i> , 2023, 163, 146-157.	4.1	10
121	Tuning the viscoelastic response of hydrogel scaffolds with covalent and dynamic bonds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105179.	1.5	9
122	Substrate Viscoelasticity Amplifies Distinctions between Transient and Persistent LPS-Induced Signals. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102271.	3.9	4
123	Viscoelasticity Acts as a Marker for Tumor Extracellular Matrix Characteristics. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 785138.	1.8	24
124	A Versatile, Incubator-Compatible, Monolithic GaN Photonic Chipscope for Label-Free Monitoring of Live Cell Activities. <i>Advanced Science</i> , 2022, 9, e2200910.	5.6	5
125	Viscoelastic Biomaterials for Tissue Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 289-300.	1.1	19
126	3D printing topographic cues for cell contact guidance: a review. <i>Materials and Design</i> , 2022, , 110663.	3.3	9
127	A brief overview on mechanosensing and stick-slip motion at the leading edge of migrating cells. <i>Indian Journal of Physics</i> , 2022, 96, 2629-2638.	0.9	2
128	Regulation of Substrate Dissipation via Tunable Linear Elasticity Controls Cell Activity. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	7
130	Modelling the Effect of Geometry and Loading on Mechanical Response of SARS-CoV-2. <i>BioNanoScience</i> , 2022, 12, 867-876.	1.5	1
131	Nucleoside-Derived Low-Molecular-Weight Gelators as a Synthetic Microenvironment for 3D Cell Culture. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3387-3398.	2.6	2
132	Mechanical checkpoint regulates monocyte differentiation in fibrotic niches. <i>Nature Materials</i> , 2022, 21, 939-950.	13.3	22
133	Optimization of Mechanosensitive Cross-Talk between Matrix Stiffness and Protein Density: Independent Matrix Properties Regulate Spreading Dynamics of Myocytes. <i>Cells</i> , 2022, 11, 2122.	1.8	1
134	Engineering Hydrogels for Modulation of Material-Cell Interactions. <i>Macromolecular Bioscience</i> , 2022, 22, .	2.1	4
135	Unified multiscale theory of cellular mechanical adaptations to substrate stiffness. <i>Biophysical Journal</i> , 2022, 121, 3474-3485.	0.2	6
136	Engineering the viscoelasticity of gelatin methacryloyl (GelMA) hydrogels via small α -dynamic bridges to regulate BMSC behaviors for osteochondral regeneration. <i>Bioactive Materials</i> , 2023, 25, 445-459.	8.6	18
137	On modeling the multiscale mechanobiology of soft tissues: Challenges and progress. <i>Biophysics Reviews</i> , 2022, 3, .	1.0	3
138	Thermodynamically-motivated chemo-mechanical models and multicellular simulation to provide new insight into active cell and tumour remodelling. <i>Experimental Cell Research</i> , 2022, 419, 113317.	1.2	0

#	ARTICLE	IF	CITATIONS
139	Modular mixing of benzene-1,3,5-tricarboxamide supramolecular hydrogelators allows tunable biomimetic hydrogels for control of cell aggregation in 3D. <i>Biomaterials Science</i> , 2022, 10, 4740-4755.	2.6	9
140	Supracellular measurement of spatially varying mechanical heterogeneities in live monolayers. <i>Biophysical Journal</i> , 2022, 121, 3358-3369.	0.2	2
141	Extracellular matrix mechanobiology in cancer cell migration. <i>Acta Biomaterialia</i> , 2023, 163, 351-364.	4.1	12
142	Click chemistry functionalization of self-assembling peptide hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , , .	2.1	3
143	Cell mechanical responses to subcellular perturbations generated by ultrasound and targeted microbubbles. <i>Acta Biomaterialia</i> , 2022, , .	4.1	0
145	On the significance of membrane unfolding in mechanosensitive cell spreading: Its individual and synergistic effects. <i>Mathematical Biosciences and Engineering</i> , 2022, 20, 2408-2438.	1.0	0
146	Predicting YAP/TAZ nuclear translocation in response to ECM mechanosensing. <i>Biophysical Journal</i> , 2023, 122, 43-53.	0.2	6
147	A multiscale whole-cell theory for mechanosensitive migration on viscoelastic substrates. <i>Biophysical Journal</i> , 2023, 122, 114-129.	0.2	2
149	Static and Dynamic: Evolving Biomaterial Mechanical Properties to Control Cellular Mechanotransduction. <i>Advanced Science</i> , 2023, 10, .	5.6	23
150	Actin based motility unveiled: How chemical energy is converted into motion. <i>Journal of the Mechanics and Physics of Solids</i> , 2023, 175, 105273.	2.3	1
151	Multifunctional tendon-mimetic hydrogels. <i>Science Advances</i> , 2023, 9, .	4.7	22
153	Cell's extracellular matrix mechanotransduction in 3D. <i>Nature Reviews Molecular Cell Biology</i> , 2023, 24, 495-516.	16.1	72
155	Substrate viscoelasticity affects human macrophage morphology and phagocytosis. <i>Soft Matter</i> , 2023, 19, 2438-2445.	1.2	2