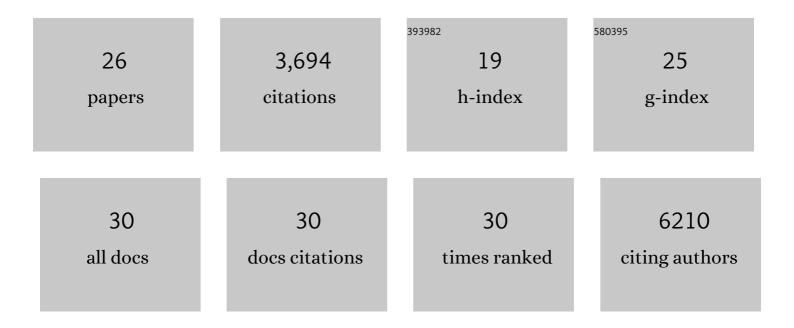
Britta Trappmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Extracellular-matrix tethering regulates stem-cell fate. Nature Materials, 2012, 11, 642-649.	13.3	1,346
2	Cell-mediated fibre recruitment drives extracellular matrix mechanosensing inÂengineered fibrillar microenvironments. Nature Materials, 2015, 14, 1262-1268.	13.3	464
3	Actin and serum response factor transduce physical cues from the microenvironment to regulate epidermal stem cell fate decisions. Nature Cell Biology, 2010, 12, 711-718.	4.6	414
4	Matrix degradability controls multicellularity of 3D cell migration. Nature Communications, 2017, 8, 371.	5.8	192
5	A DNA-based molecular probe for optically reporting cellular traction forces. Nature Methods, 2014, 11, 1229-1232.	9.0	171
6	Remodeling of Fibrous Extracellular Matrices by Contractile Cells: Predictions from Discrete Fiber Network Simulations. Biophysical Journal, 2014, 107, 1829-1840.	0.2	171
7	How cells sense extracellular matrix stiffness: a material's perspective. Current Opinion in Biotechnology, 2013, 24, 948-953.	3.3	165
8	Microfluidics embedded within extracellular matrix to define vascular architectures and pattern diffusive gradients. Lab on A Chip, 2013, 13, 3246.	3.1	145
9	Exploiting the superior protein resistance of polymer brushes to control single cell adhesion and polarisation at the micron scale. Biomaterials, 2010, 31, 5030-5041.	5.7	99
10	A New Family of Nonionic Dendritic Amphiphiles Displaying Unexpected Packing Parameters in Micellar Assemblies. Journal of the American Chemical Society, 2010, 132, 11119-11124.	6.6	83
11	Pulmonary pericytes regulate lung morphogenesis. Nature Communications, 2018, 9, 2448.	5.8	72
12	Mechanically Induced Generation of Counterions Inside Surface-Grafted Charged Macromolecular Films: Towards Enhanced Mechanotransduction in Artificial Systems. Angewandte Chemie - International Edition, 2006, 45, 7440-7443.	7.2	57
13	Mimicking normal tissue architecture and perturbation in cancer with engineered micro-epidermis. Biomaterials, 2012, 33, 5221-5229.	5.7	44
14	Polyglycerol-derived amphiphiles for single walled carbon nanotube suspension. Chemical Physics Letters, 2010, 493, 147-150.	1.2	32
15	Synthetic extracellular matrices with tailored adhesiveness and degradability support lumen formation during angiogenic sprouting. Nature Communications, 2021, 12, 3402.	5.8	31
16	Micropatterned Multicolor Dynamically Adhesive Substrates to Control Cell Adhesion and Multicellular Organization. Langmuir, 2014, 30, 1327-1335.	1.6	30
17	Polyglycerolâ€Derived Amphiphiles for the Solubilization of Singleâ€Walled Carbon Nanotubes in Water: A Structure–Property Study. ChemPhysChem, 2012, 13, 203-211.	1.0	27
18	3D biomimetic platform reveals the first interactions of the embryo and the maternal blood vessels. Developmental Cell, 2021, 56, 3276-3287.e8.	3.1	27

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#	Article	IF	CITATIONS
19	PECAMâ€1 supports leukocyte diapedesis by tensionâ€dependent dephosphorylation of VEâ€cadherin. EMBO Journal, 2021, 40, e106113.	3.5	22
20	Nonswelling and Hydrolytically Stable Hydrogels Uncover Cellular Mechanosensing in 3D. Advanced Science, 2022, 9, e2105325.	5.6	11
21	Interaction between singleâ€walled carbon nanotubes and alkylâ€polyglycerol derivatives. Physica Status Solidi (B): Basic Research, 2010, 247, 2758-2761.	0.7	10
22	Amphiphile replacement on carbon nanotube surfaces: Effect of aromatic groups on the interaction strength. Physica Status Solidi (B): Basic Research, 2011, 248, 2532-2535.	0.7	9
23	Force-induced changes of $\hat{l}\pm$ -catenin conformation stabilize vascular junctions independently of vinculin. Journal of Cell Science, 2021, 134, .	1.2	9
24	Engineered Fibrillar Extracellular Matrices for the Study of Directed Cell Migration. , 2012, , .		0
25	Engineered Fibrillar Microenvironments With Controllable Architecture and Mechanics for Studying Cellular Stiffness Sensing. , 2013, , .		0
26	Mesenchymal stem cell mechanosensing in engineered fibrillar microenvironments. , 2014, , .		0