

Britta Trappmann

List of Publications by Citations

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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.

24
papers

2,976
citations

17
h-index

30
g-index

30
ext. papers

3,386
ext. citations

11.9
avg, IF

4.81
L-index

#	Paper	IF	Citations
24	Extracellular-matrix tethering regulates stem-cell fate. <i>Nature Materials</i> , 2012 , 11, 642-9	27	1156
23	Cell-mediated fibre recruitment drives extracellular matrix mechanosensing in engineered fibrillar microenvironments. <i>Nature Materials</i> , 2015 , 14, 1262-8	27	356
22	Actin and serum response factor transduce physical cues from the microenvironment to regulate epidermal stem cell fate decisions. <i>Nature Cell Biology</i> , 2010 , 12, 711-8	23.4	351
21	Matrix degradability controls multicellularity of 3D cell migration. <i>Nature Communications</i> , 2017 , 8, 371	17.4	145
20	How cells sense extracellular matrix stiffness: a materials perspective. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 948-53	11.4	140
19	A DNA-based molecular probe for optically reporting cellular traction forces. <i>Nature Methods</i> , 2014 , 11, 1229-32	21.6	133
18	Microfluidics embedded within extracellular matrix to define vascular architectures and pattern diffusive gradients. <i>Lab on A Chip</i> , 2013 , 13, 3246-52	7.2	126
17	Remodeling of fibrous extracellular matrices by contractile cells: predictions from discrete fiber network simulations. <i>Biophysical Journal</i> , 2014 , 107, 1829-1840	2.9	112
16	Exploiting the superior protein resistance of polymer brushes to control single cell adhesion and polarisation at the micron scale. <i>Biomaterials</i> , 2010 , 31, 5030-41	15.6	85
15	A new family of nonionic dendritic amphiphiles displaying unexpected packing parameters in micellar assemblies. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11119-24	16.4	74
14	Mechanically induced generation of counterions inside surface-grafted charged macromolecular films: towards enhanced mechanotransduction in artificial systems. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7440-3	16.4	54
13	Pulmonary pericytes regulate lung morphogenesis. <i>Nature Communications</i> , 2018 , 9, 2448	17.4	42
12	Mimicking normal tissue architecture and perturbation in cancer with engineered micro-epidermis. <i>Biomaterials</i> , 2012 , 33, 5221-9	15.6	36
11	Polyglycerol-derived amphiphiles for single walled carbon nanotube suspension. <i>Chemical Physics Letters</i> , 2010 , 493, 147-150	2.5	31
10	Polyglycerol-derived amphiphiles for the solubilization of single-walled carbon nanotubes in water: a structure-property study. <i>ChemPhysChem</i> , 2012 , 13, 203-11	3.2	26
9	Micropatterned multicolor dynamically adhesive substrates to control cell adhesion and multicellular organization. <i>Langmuir</i> , 2014 , 30, 1327-35	4	21
8	Mechanically Induced Generation of Counterions Inside Surface-Grafted Charged Macromolecular Films: Towards Enhanced Mechanotransduction in Artificial Systems. <i>Angewandte Chemie</i> , 2006 , 118, 7600-7603	3.6	12

7	Interaction between single-walled carbon nanotubes and alkyl-polyglycerol derivatives. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2758-2761	1.3	10
6	Amphiphile replacement on carbon nanotube surfaces: Effect of aromatic groups on the interaction strength. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2532-2535	1.3	9
5	Synthetic extracellular matrices with tailored adhesiveness and degradability support lumen formation during angiogenic sprouting. <i>Nature Communications</i> , 2021 , 12, 3402	17.4	5
4	PECAM-1 supports leukocyte diapedesis by tension-dependent dephosphorylation of VE-cadherin. <i>EMBO Journal</i> , 2021 , 40, e106113	13	5
3	3D biomimetic platform reveals the first interactions of the embryo and the maternal blood vessels. <i>Developmental Cell</i> , 2021 , 56, 3276-3287.e8	10.2	3
2	Nonswelling and Hydrolytically Stable Hydrogels Uncover Cellular Mechanosensing in 3D.. <i>Advanced Science</i> , 2022 , e2105325	13.6	2
1	Blutgefäß aus dem Labor [neue Matriceigenschaften zur Gefäßbildung]. <i>BioSpektrum</i> , 2022 , 28, 149-151	0.1	