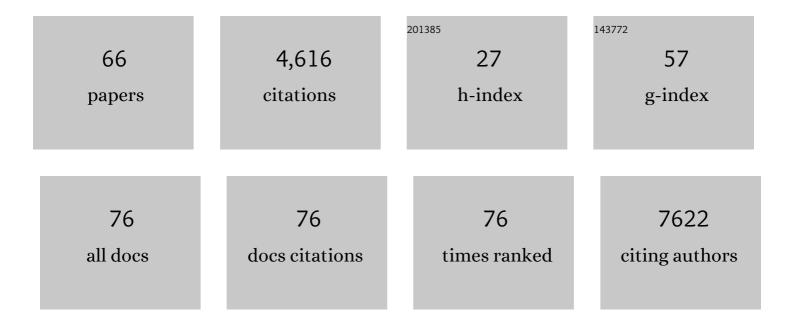
## Florian Rehfeldt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	DNA damage alters nuclear mechanics through chromatin reorganization. Nucleic Acids Research, 2021, 49, 340-353.	6.5	38
2	High internal phase Pickering emulsions stabilized by dialdehyde amylopectin/chitosan complex nanoparticles. Carbohydrate Polymers, 2021, 258, 117655.	5.1	16
3	Mechanical Regulation of Epithelial Tissue Homeostasis. Physical Review X, 2021, 11, .	2.8	6
4	A Focal Adhesion Filament Cross-correlation Kit for fast, automated segmentation and correlation of focal adhesions and actin stress fibers in cells. PLoS ONE, 2021, 16, e0250749.	1.1	9
5	High-Internal-Phase Pickering Emulsions Stabilized by Polymeric Dialdehyde Cellulose-Based Nanoparticles. ACS Sustainable Chemistry and Engineering, 2020, 8, 7371-7379.	3.2	25
6	Metasurface-based total internal reflection microscopy. Biomedical Optics Express, 2020, 11, 1967.	1.5	7
7	A Statistical and Biophysical Toolbox to Elucidate Structure and Formation of Stress Fibers. Topics in Applied Physics, 2020, , 263-282.	0.4	1
8	Thermoresponsive Water Transportation in Dually Electrostatically Crosslinked Nanocomposite Hydrogels. Macromolecular Rapid Communications, 2019, 40, e1900317.	2.0	4
9	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	1.3	236
10	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation. Frontiers in Immunology, 2019, 10, 2320.	2.2	35
11	Lipid Emulsion–Based OCT Angiography for Ex Vivo Imaging of the Aqueous Outflow Tract. , 2019, 60, 397.		6
12	Multiâ€Responsive Bilayer Hydrogel Actuators with Programmable and Precisely Tunable Motions. Macromolecular Chemistry and Physics, 2019, 220, 1800562.	1.1	37
13	Liquid-Behaviors-Assisted Fabrication of Multidimensional Birefringent Materials from Dynamic Hybrid Hydrogels. ACS Nano, 2019, 13, 3867-3874.	7.3	54
14	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	15
15	Agonistic and antagonistic roles of fibroblasts and cardiomyocytes on viscoelastic stiffening of engineered human myocardium. Progress in Biophysics and Molecular Biology, 2019, 144, 51-60.	1.4	16
16	Topology determines force distributions in one-dimensional random spring networks. Physical Review E, 2018, 97, 022306.	0.8	0
17	Dual-color metal-induced and Förster resonance energy transfer for cell nanoscopy. Molecular Biology of the Cell, 2018, 29, 846-851.	0.9	26
18	Dually Heterogeneous Hydrogels via Dynamic and Supramolecular Cross-Links Tuning Discontinuous Spatial Ruptures. ACS Sustainable Chemistry and Engineering, 2018, 6, 4294-4301.	3.2	6

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19	Topology Counts: Force Distributions in Circular Spring Networks. Physical Review Letters, 2018, 120, 068001.	2.9	3
20	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	1.3	99
21	Rhombic organization of microvilli domains found in a cell model of the human intestine. PLoS ONE, 2018, 13, e0189970.	1.1	3
22	Myotubularin related protein-2 and its phospholipid substrate PIP2 control Piezo2-mediated mechanotransduction in peripheral sensory neurons. ELife, 2018, 7, .	2.8	37
23	Molecular force sensors to measure stress in cells. Journal Physics D: Applied Physics, 2017, 50, 233001.	1.3	14
24	Robust Heterogeneous Hydrogels with Dynamic Nanocrystal–Polymer Interface. Macromolecular Rapid Communications, 2017, 38, 1600810.	2.0	8
25	Physical probing of cells. Journal Physics D: Applied Physics, 2017, 50, 463001.	1.3	9
26	Coordinated increase of nuclear tension and lamin-A with matrix stiffness outcompetes lamin-B receptor that favors soft tissue phenotypes. Molecular Biology of the Cell, 2017, 28, 3333-3348.	0.9	94
27	Anisotropic x-ray scattering and orientation fields in cardiac tissue cells. New Journal of Physics, 2017, 19, 013012.	1.2	25
28	ESTIMATION OF PARAMETERS IN A PLANAR SEGMENT PROCESS WITH A BIOLOGICAL APPLICATION. Image Analysis and Stereology, 2017, 36, 25.	0.4	1
29	Sulfo-SMCC Prevents Annealing of Taxol-Stabilized Microtubules In Vitro. PLoS ONE, 2016, 11, e0161623.	1.1	3
30	Limits of Applicability of the Voronoi Tessellation Determined by Centers of Cell Nuclei to Epithelium Morphology. Frontiers in Physiology, 2016, 7, 551.	1.3	46
31	The circular SiZer, inferred persistence of shape parameters and application to early stem cell differentiation. Bernoulli, 2016, 22, .	0.7	14
32	X-Ray Micro- and Nanodiffraction Imaging on Human Mesenchymal Stem Cells and Differentiated Cells. Biophysical Journal, 2016, 110, 680-690.	0.2	22
33	Elasticity of 3D networks with rigid filaments and compliant crosslinks. Soft Matter, 2015, 11, 343-354.	1.2	27
34	Mechanotransduction: use the force(s). BMC Biology, 2015, 13, 47.	1.7	183
35	Force fluctuations in three-dimensional suspended fibroblasts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140028.	1.8	26
36	The Filament Sensor for Near Real-Time Detection of Cytoskeletal Fiber Structures. PLoS ONE, 2015, 10, e0126346.	1.1	64

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37	Contractile Forces Sustain and Polarize Hematopoiesis from Stem and Progenitor Cells. Cell Stem Cell, 2014, 14, 81-93.	5.2	114
38	Micro-topography influences blood platelet spreading. Soft Matter, 2014, 10, 2365-2371.	1.2	11
39	Novel Growth Regime of MDCK II Model Tissues on Soft Substrates. Biophysical Journal, 2014, 106, L25-L28.	0.2	30
40	Stem Cell Nucleus Morphology is Modulated by Matrix Mechanics via the Cytoskeleton. Biophysical Journal, 2013, 104, 151a.	0.2	0
41	Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. Science, 2013, 341, 1240104.	6.0	1,595
42	Hyaluronic acid matrices show matrix stiffness in 2D and 3D dictates cytoskeletal order and myosin-II phosphorylation within stem cells. Integrative Biology (United Kingdom), 2012, 4, 422.	0.6	107
43	Adhesion of Cells, Viruses and Nanoparticles. , 2011, , .		26
44	Optimal matrix rigidity for stress-fibre polarization in stem cells. Nature Physics, 2010, 6, 468-473.	6.5	335
45	Adhesion of Viruses. , 2010, , 195-220.		1
46	Cell shape, spreading symmetry, and the polarization of stress-fibers in cells. Journal of Physics Condensed Matter, 2010, 22, 194110.	0.7	75
47	Modelling Nanoparticle, Virus and Cell Adhesion. , 2010, , 45-71.		0
48	Preparation of Collagen-Coated Gels that Maximize In Vitro Myogenesis of Stem Cells by Matching the Lateral Elasticity of In Vivo Muscle. Methods in Molecular Biology, 2010, 621, 185-202.	0.4	29
49	Adhesion of Cells. , 2010, , 221-240.		1
50	Measurement Methods. , 2010, , 145-165.		0
51	Phenomenology of Adhesion: From Macro- to Nano-Systems. , 2010, , 21-43.		0
52	Mechanical properties of interacting lipopolysaccharide membranes from bacteria mutants studied by specular and off-specular neutron scattering. Physical Review E, 2009, 80, 041929.	0.8	32
53	Structures of regenerated cellulose films revealed by grazing incidence small-angle x-ray scattering. Biointerphases, 2008, 3, 117-127.	0.6	28
54	Modulation of intermembrane interaction and bending rigidity of biomembrane models via carbohydrates investigated by specular and off-specular neutron scattering. Physical Review E, 2008, 78, 061924.	0.8	26

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55	Microtissue Elasticity: Measurements by Atomic Force Microscopy and Its Influence on Cell Differentiation. Methods in Cell Biology, 2007, 83, 521-545.	0.5	158
56	Cell dipoles feel their way. Nature Physics, 2007, 3, 592-593.	6.5	6
57	Cell responses to the mechanochemical microenvironment—Implications for regenerative medicine and drug deliveryâ~†. Advanced Drug Delivery Reviews, 2007, 59, 1329-1339.	6.6	351
58	Reversible Activation of Diblock Copolymer Monolayers at the Interface by pH Modulation, 1:Â Lateral Chain Density and Conformation. Journal of Physical Chemistry B, 2006, 110, 9171-9176.	1.2	40
59	Reversible Activation of Diblock Copolymer Monolayers at the Interface by pH Modulation, 2:Â Membrane Interactions at the Solid/Liquid Interface. Journal of Physical Chemistry B, 2006, 110, 9177-9182.	1.2	30
60	Oligomer-to-Polymer Transition in Short Ethylene Glycol Chains Connected to Mobile Hydrophobic Anchors. ChemPhysChem, 2005, 6, 101-109.	1.0	1
61	Wetting and dewetting of extracellular matrix and glycocalix models. Journal of Physics Condensed Matter, 2005, 17, S649-S663.	0.7	26
62	Selective Deposition of Native Cell Membranes on Biocompatible Micropatterns. Journal of the American Chemical Society, 2004, 126, 3257-3260.	6.6	68
63	Swelling Behavior of Polyelectrolyte Multilayers in Saturated Water Vapor. Macromolecules, 2004, 37, 7285-7289.	2.2	180
64	Hydration Forces in Ultrathin Films of Celluloseâ€. Langmuir, 2003, 19, 1467-1473.	1.6	56
65	Static and Dynamic Swelling of Grafted Poly(2-alkyl-2-oxazoline)s. Langmuir, 2002, 18, 4908-4914.	1.6	57
66	Description of Vapour Pressures of Polycyclic Aromatic Compounds by Graph Theoretical Indices. QSAR and Combinatorial Science, 1997, 16, 38-48.	1.4	9