

# Christine Selhuber-Unkel

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

2,973  
citations

279798

23  
h-index

168389

53  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoresponsive Hydrogels with Improved Actuation Function by Interconnected Microchannels. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100081.	6.1	10
2	Control of Cell Adhesion using Hydrogel Patterning Techniques for Applications in Traction Force Microscopy. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	0
3	Cellular properties of human gingival fibroblasts on novel and conventional implant-abutment materials. <i>Dental Materials</i> , 2022, 38, 540-548.	3.5	10
4	Influence of carrier materials and coatings on retinal pigment epithelium cultivation and functions. <i>Experimental Eye Research</i> , 2022, 219, 109063.	2.6	1
5	A Co-Polymerizable Linker for the Covalent Attachment of Fibronectin Makes pHEMA Hydrogels Cell-Adhesive. <i>Gels</i> , 2022, 8, 258.	4.5	3
6	Microengineered Hollow Graphene Tube Systems Generate Conductive Hydrogels with Extremely Low Filler Concentration. <i>Nano Letters</i> , 2021, 21, 3690-3697.	9.1	29
7	Unidirectional transport of superparamagnetic beads and biological cells along oval magnetic elements. <i>Applied Physics Letters</i> , 2021, 118, 232405.	3.3	3
8	Tunable 3D Hydrogel Microchannel Networks to Study Confined Mammalian Cell Migration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100625.	7.6	12
9	Quantifying force transmission through fibroblasts: changes of traction forces under external shearing. <i>European Biophysics Journal</i> , 2021, , 1.	2.2	2
10	10.1063/5.0044310.6., 2021, , .		0
11	Tunable 3D Hydrogel Microchannel Networks to Study Confined Mammalian Cell Migration (Adv.) <i>Tj ETQq1 1 0.784314 rgBT<sub>0</sub>Overlo</i>	7.6	12
12	Migration of Microparticle-Containing Amoeba through Constricted Environments. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 889-897.	5.2	3
13	Mapping of magnetic nanoparticles and cells using thin film magnetoelectric sensors based on the delta-E effect. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 112023.	4.1	9
14	The threshold of amyloid aggregation of beta-lactoglobulin: Relevant factor combinations. <i>Journal of Food Engineering</i> , 2020, 283, 110005.	5.2	18
15	Microfabricated bioelectrodes on self-expandable NiTi thin film devices for implants and diagnostic instruments. <i>Biosensors and Bioelectronics</i> , 2020, 153, 112034.	10.1	9
16	Automated analysis of soft hydrogel microindentation: Impact of various indentation parameters on the measurement of Young's modulus. <i>PLoS ONE</i> , 2019, 14, e0220281.	2.5	30
17	Living Materials Herald a New Era in Soft Robotics. <i>Advanced Materials</i> , 2019, 31, e1807747.	21.0	78
18	Influence of the polydispersity of pH 2 and pH 3.5 beta-lactoglobulin amyloid fibril solutions on analytical methods. <i>European Polymer Journal</i> , 2019, 120, 109211.	5.4	32

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19	Spectral Content of a Single Non-Brownian Trajectory. <i>Physical Review X</i> , 2019, 9, .	8.9	65
20	Systematically Designed Periodic Electrophoretic Deposition for Decorating 3D Carbon-Based Scaffolds with Bioactive Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4393-4404.	5.2	10
21	DFG-Graduiertenkolleg 2154 – Materials for Brain: Dünnschichtbasierte Funktionsmaterialien für die minimal-invasive Therapie von Erkrankungen des Gehirns. <i>Neuroforum</i> , 2019, 25, 69-71.	0.3	0
22	Transient superdiffusion of polydisperse vacuoles in highly motile amoeboid cells. <i>Journal of Chemical Physics</i> , 2019, 150, 144901.	3.0	24
23	Magnetic particle mapping using magnetoelectric sensors as an imaging modality. <i>Scientific Reports</i> , 2019, 9, 2086.	3.3	23
24	Biomimetic Carbon Fiber Systems Engineering: A Modular Design Strategy To Generate Biofunctional Composites from Graphene and Carbon Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5325-5335.	8.0	24
25	3D Hydrogels Containing Interconnected Microchannels of Subcellular Size for Capturing Human Pathogenic <i>Acanthamoeba Castellanii</i> . <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1784-1792.	5.2	19
26	Interconnected Microchannels in Hydrogels to Control Cell Adhesion and Mechanotransduction. <i>Biophysical Journal</i> , 2018, 114, 192a.	0.5	0
27	Bioactive Carbon-Based Hybrid 3D Scaffolds for Osteoblast Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43874-43886.	8.0	32
28	High-throughput micro-nanostructuring by microdroplet inkjet printing. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2372-2380.	2.8	0
29	Detection and characterization of attenuated multimode waveguiding in SiO <sub>2</sub> slabs using photoemission electron microscopy. <i>Physical Review B</i> , 2018, 98, .	3.2	3
30	High-Frequency Mechanostimulation of Cell Adhesion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 225-229.	13.8	38
31	High-Frequency Mechanostimulation of Cell Adhesion. <i>Angewandte Chemie</i> , 2017, 129, 231-235.	2.0	6
32	Impact of Cleaning Procedures on Adhesion of Living Cells to Three Abutment Materials. <i>International Journal of Oral and Maxillofacial Implants</i> , 2017, 32, 976-984.	1.4	17
33	Noncovalent Spiropyran Coatings for Photoinduced Wettability Switching. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-6.	2.7	1
34	Adhesion forces and mechanics in mannose-mediated acanthamoeba interactions. <i>PLoS ONE</i> , 2017, 12, e0176207.	2.5	13
35	Intensity interrogation near cutoff resonance for label-free cellular profiling. <i>Scientific Reports</i> , 2016, 6, 24685.	3.3	17
36	Rapid Reversible Photoswitching of Integrin-Mediated Adhesion at the Single-Cell Level. <i>Advanced Materials</i> , 2016, 28, 1799-1802.	21.0	71

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37	Adhesion of living cells to abutment materials, dentin, and adhesive luting cement with different surface qualities. <i>Dental Materials</i> , 2016, 32, 1524-1535.	3.5	27
38	Reinforcement of integrin-mediated T-Lymphocyte adhesion by TNF-induced Inside-out Signaling. <i>Scientific Reports</i> , 2016, 6, 30452.	3.3	7
39	A Tunable Scaffold of Microtubular Graphite for 3D Cell Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14980-14985.	8.0	23
40	Human blood microfluidic test chip for imaging, label-free biosensor. <i>Microsystem Technologies</i> , 2016, 22, 1513-1518.	2.0	4
41	Cell adhesion on NiTi thin film sputter-deposited meshes. <i>Materials Science and Engineering C</i> , 2016, 59, 611-616.	7.3	10
42	Cardiomyocyte behavior on biodegradable polyurethane/gold nanocomposite scaffolds under electrical stimulation. <i>Materials Science and Engineering C</i> , 2016, 59, 10-18.	7.3	78
43	Photocatalytic properties of titania thin films prepared by sputtering versus evaporation and aging of induced oxygen vacancy defects. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 362-371.	20.2	54
44	Handheld imaging photonic crystal biosensor for multiplexed, label-free protein detection. <i>Biomedical Optics Express</i> , 2015, 6, 3724.	2.9	79
45	Reinforcement of Integrin-Mediated T-Lymphocyte Adhesion by TNF. <i>Biophysical Journal</i> , 2015, 108, 98a.	0.5	0
46	Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic <i>Acanthamoeba castellanii</i> . <i>Scientific Reports</i> , 2015, 5, 11690.	3.3	159
47	Bioactive compounds immobilized on Ti and TiNbHf: AFM-based investigations of biofunctionalization efficiency and cell adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 704-711.	5.0	13
48	Controlled Self-Assembly of Hexagonal Nanoparticle Patterns on Nanotopographies. <i>Langmuir</i> , 2015, 31, 9261-9265.	3.5	6
49	Influence of the PDMS substrate stiffness on the adhesion of <i>Acanthamoeba castellanii</i> . <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1393-1398.	2.8	20
50	Characterisation and use of Î²-lactoglobulin fibrils for microencapsulation of lipophilic ingredients and oxidative stability thereof. <i>Journal of Food Engineering</i> , 2014, 143, 53-61.	5.2	98
51	In vitro adhesion of <i>Acanthamoeba castellanii</i> to soft contact lenses depends on water content and disinfection procedure. <i>Contact Lens and Anterior Eye</i> , 2014, 37, 262-266.	1.7	20
52	Material-based three-dimensional imaging with nanostructured surfaces. <i>Applied Physics Letters</i> , 2013, 102, 011116.	3.3	11
53	Photometric aptasensor using biofunctionalized photonic crystal slabs. , 2013, , .		3
54	Photonic crystal slabs for surface contrast enhancement in microscopy of transparent objects. <i>Optics Express</i> , 2012, 20, 14451.	3.4	6

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55	<i>In Vivo</i> Anomalous Diffusion and Weak Ergodicity Breaking of Lipid Granules. <i>Physical Review Letters</i> , 2011, 106, 048103.	7.8	553
56	Impact of Local versus Global Ligand Density on Cellular Adhesion. <i>Nano Letters</i> , 2011, 11, 1469-1476.	9.1	149
57	Measuring Cell Adhesion Forces: Theory and Principles. <i>Methods in Molecular Biology</i> , 2011, 736, 355-377.	0.9	20
58	Arachidonic Acid Randomizes Endothelial Cell Motion and Regulates Adhesion and Migration. <i>PLoS ONE</i> , 2011, 6, e25196.	2.5	19
59	Mimicking the Cellular Environment: Effects of Elastic Nanopatterned Substrates on Integrin-Mediated Cellular Interactions. <i>Biophysical Journal</i> , 2010, 98, 729a.	0.5	0
60	Cell Adhesion Strength Is Controlled by Intermolecular Spacing of Adhesion Receptors. <i>Biophysical Journal</i> , 2010, 98, 543-551.	0.5	187
61	Quantitative Analysis of Single Particle Trajectories: Mean Maximal Excursion Method. <i>Biophysical Journal</i> , 2010, 98, 1364-1372.	0.5	188
62	Tracking Cell-Nanoparticle Interactions. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 634-640.	1.1	4
63	Quantifying and pinpointing sources of noise in optical tweezers experiments. , 2009, , .		4
64	Plasmodium Sporozoite Motility Is Modulated by the Turnover of Discrete Adhesion Sites. <i>Cell Host and Microbe</i> , 2009, 6, 551-562.	11.0	163
65	Variety in intracellular diffusion during the cell cycle. <i>Physical Biology</i> , 2009, 6, 025015.	1.8	60
66	Cooperativity in Adhesion Cluster Formation during Initial Cell Adhesion. <i>Biophysical Journal</i> , 2008, 95, 5424-5431.	0.5	114
67	Quantitative Optical Trapping of Single Gold Nanorods. <i>Nano Letters</i> , 2008, 8, 2998-3003.	9.1	171
68	Tuning Surface Energies with Nanopatterned Substrates. <i>Nano Letters</i> , 2006, 6, 267-270.	9.1	18
69	Cellular Unbinding Forces of Initial Adhesion Processes on Nanopatterned Surfaces Probed with Magnetic Tweezers. <i>Nano Letters</i> , 2006, 6, 398-402.	9.1	93