

Christoph Westerhausen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1006914/publications.pdf>

Version: 2024-02-01

35
papers

685
citations

687363

13
h-index

552781

26
g-index

43
all docs

43
docs citations

43
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad lipid phase transitions in mammalian cell membranes measured by Laurdan fluorescence spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183794.	2.6	9
2	Acetylcholinesterase Activity Influenced by Lipid Membrane Area and Surface Acoustic Waves. <i>Micromachines</i> , 2022, 13, 287.	2.9	4
3	Reversible single cell trapping of <i>Paramecium caudatum</i> to correlate swimming behavior and membrane state. <i>Biomicrofluidics</i> , 2022, 16, 024102.	2.4	1
4	Directed invasion of cancer cell spheroids inside 3D collagen matrices oriented by microfluidic flow in experiment and simulation. <i>PLoS ONE</i> , 2022, 17, e0264571.	2.5	5
5	Handy nanoquakes. <i>Nature Materials</i> , 2022, 21, 499-501.	27.5	1
6	One-dimensional acoustic potential landscapes guide the neurite outgrowth and affect the viability of B35 neuroblastoma cells. <i>Physical Biology</i> , 2022, 19, 046005.	1.8	2
7	Shear-horizontal surface acoustic wave sensor for non-invasive monitoring of dynamic cell spreading and attachment in wound healing assays. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112807.	10.1	12
8	Surface acoustic wave enhanced water splitting reaction with methanol as a sacrificial material. <i>Catalysis Science and Technology</i> , 2021, 11, 1458-1466.	4.1	3
9	Transient Permeabilization of Living Cells: Combining Shear Flow and Acoustofluidic Trapping for the Facilitated Uptake of Molecules. <i>Processes</i> , 2021, 9, 913.	2.8	11
10	Dynamic Effective Elasticity of Melanoma Cells under Shear and Elongational Flow Confirms Estimation from Force Spectroscopy. <i>Biophysica</i> , 2021, 1, 445-457.	1.4	0
11	The activity of the intrinsically water-soluble enzyme ADAMTS13 correlates with the membrane state when bound to a phospholipid bilayer. <i>Scientific Reports</i> , 2021, 11, 24476.	3.3	4
12	Vibration enhanced cell growth induced by surface acoustic waves as in vitro wound-healing model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31603-31613.	7.1	23
13	Blood group and size dependent stability of <i>P. falciparum</i> infected red blood cell aggregates in capillaries. <i>Biomicrofluidics</i> , 2020, 14, 024104.	2.4	10
14	Extracellular Redox Regulation of β_1 Integrin-Mediated Cell Migration Is Signaled via a Dominant Thiol-Switch. <i>Antioxidants</i> , 2020, 9, 227.	5.1	11
15	The 2019 surface acoustic waves roadmap. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 353001.	2.8	236
16	Correlation of in vitro cell adhesion, local shear flow and cell density. <i>RSC Advances</i> , 2019, 9, 543-551.	3.6	8
17	Ion controlled passive nanoparticle uptake in lipid vesicles in theory and experiment. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 294001.	2.8	3
18	Size tunable nanoparticle formation employing droplet fusion by acoustic streaming applied to polyplexes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 244002.	2.8	5

#	ARTICLE	IF	CITATIONS
19	Smart antimicrobial efficacy employing pH-sensitive ZnO-doped diamond-like carbon coatings. Scientific Reports, 2019, 9, 17246.	3.3	18
20	Fission of Lipid-Vesicles by Membrane Phase Transitions in Thermal Convection. Scientific Reports, 2019, 9, 18808.	3.3	16
21	Acoustic Streaming Driven Enhanced Dye-Uptake in Cells for Fluorescence Imaging. , 2018, , .		0
22	Orchestrating cells on a chip: Employing surface acoustic waves towards the formation of neural networks. Physical Review E, 2018, 98, 012411.	2.1	27
23	Ionic Strength and the Supporting Material Strongly Influence the Adhesion of Silica to Supported Lipid Bilayers. Advanced Biology, 2018, 2, 1800087.	3.0	2
24	Influence of neighboring adherent cells on laminar flow induced shear stress <i>in vitro</i>â€™A systematic study. Biomicrofluidics, 2017, 11, 024115.	2.4	6
25	Multilayer diamond-like amorphous carbon coatings produced by ion irradiation of polymer films. Surface and Coatings Technology, 2017, 327, 42-47.	4.8	18
26	Exploring the Limits of Cell Adhesion under Shear Stress within Physiological Conditions and beyond on a Chip. Diagnostics, 2016, 6, 38.	2.6	25
27	Controllable Acoustic Mixing of Fluids in Microchannels for the Fabrication of Therapeutic Nanoparticles. Micromachines, 2016, 7, 150.	2.9	25
28	Antibacterial metal ion release from diamond-like carbon modified surfaces for novel multifunctional implant materials. Journal of Materials Research, 2016, 31, 2571-2577.	2.6	14
29	Acoustotaxis â€™ in vitro stimulation in a wound healing assay employing surface acoustic waves. Biomaterials Science, 2016, 4, 1092-1099.	5.4	36
30	Manipulation of Cell Proliferation and Migration Employing Surface Acoustic Waves and Hydrophobic/Hydrophilic Structured Substrates. Biophysical Journal, 2016, 110, 169a.	0.5	0
31	ARAM: an automated image analysis software to determine rosetting parameters and parasitaemia in Plasmodium samples. Malaria Journal, 2016, 15, 223.	2.3	2
32	Intake of silica nanoparticles by giant lipid vesicles: influence of particle size and thermodynamic membrane state. Beilstein Journal of Nanotechnology, 2014, 5, 2468-2478.	2.8	26
33	Chemical and Mechanical Impact of Silica Nanoparticles on the Phase Transition Behavior of Phospholipid Membranes in Theory and Experiment. Biophysical Journal, 2012, 102, 1032-1038.	0.5	15
34	Biofunctionalization of a generic collagenous triple helix with the $\alpha 2 \beta 1$ integrin binding site allows molecular force measurements. International Journal of Biochemistry and Cell Biology, 2011, 43, 721-731.	2.8	22
35	Cytotoxicity of silica nanoparticles through exocytosis of von Willebrand factor and necrotic cell death in primary human endothelial cells. Biomaterials, 2011, 32, 8385-8393.	11.4	85