

Hans-Günter Döbereiner

List of Publications by Year in descending order

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62
papers

4,645
citations

172457

29
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docs citations

63
times ranked

4308
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic Lamellipodial Contractions Correlate with Rearward Actin Waves. <i>Cell</i> , 2004, 116, 431-443.	28.9	536
2	Lamellipodial Actin Mechanically Links Myosin Activity with Adhesion-Site Formation. <i>Cell</i> , 2007, 128, 561-575.	28.9	472
3	Budding transitions of fluid-bilayer vesicles: The effect of area-difference elasticity. <i>Physical Review E</i> , 1994, 49, 5389-5407.	2.1	440
4	Budding and fission of vesicles. <i>Biophysical Journal</i> , 1993, 65, 1396-1403.	0.5	253
5	CONTINUOUS MEMBRANE-CYTOSKELETON ADHESION REQUIRES CONTINUOUS ACCOMMODATION TO LIPID AND CYTOSKELETON DYNAMICS. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2006, 35, 417-434.	18.3	249
6	Vesicles in contact with nanoparticles and colloids. <i>Europhysics Letters</i> , 1998, 43, 219-225.	2.0	224
7	Refined contour analysis of giant unilamellar vesicles. <i>European Physical Journal E</i> , 2004, 13, 277-290.	1.6	218
8	Nanometer Analysis of Cell Spreading on Matrix-Coated Surfaces Reveals Two Distinct Cell States and STEPs. <i>Biophysical Journal</i> , 2004, 86, 1794-1806.	0.5	208
9	Mapping vesicle shapes into the phase diagram: A comparison of experiment and theory. <i>Physical Review E</i> , 1997, 55, 4458-4474.	2.1	201
10	Lateral Membrane Waves Constitute a Universal Dynamic Pattern of Motile Cells. <i>Physical Review Letters</i> , 2006, 97, 038102.	7.8	142
11	Dynamic Phase Transitions in Cell Spreading. <i>Physical Review Letters</i> , 2004, 93, 108105.	7.8	129
12	Influence of transbilayer area asymmetry on the morphology of large unilamellar vesicles. <i>Biophysical Journal</i> , 1995, 69, 930-941.	0.5	122
13	Quantification of Cell Edge Velocities and Traction Forces Reveals Distinct Motility Modules during Cell Spreading. <i>PLoS ONE</i> , 2008, 3, e3735.	2.5	112
14	Spontaneous curvature of fluid vesicles induced by trans-bilayer sugar asymmetry. <i>European Biophysics Journal</i> , 1999, 28, 174-178.	2.2	110
15	Poisonous plants affecting livestock in Brazil. <i>Toxicon</i> , 2002, 40, 1635-1660.	1.6	103
16	Properties of giant vesicles. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 256-263.	7.4	95
17	Starfish vesicles. <i>Europhysics Letters</i> , 1996, 33, 403-408.	2.0	81
18	Advanced Flicker Spectroscopy of Fluid Membranes. <i>Physical Review Letters</i> , 2003, 91, 048301.	7.8	64

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19	Membrane curvature induced by polymers and colloids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 536-543.	2.6	59
20	Giant Hexagonal Superstructures in Diblock-Copolymer Membranes. <i>Physical Review Letters</i> , 2002, 89, 238302.	7.8	58
21	Force sensing and generation in cell phases: analyses of complex functions. <i>Journal of Applied Physiology</i> , 2005, 98, 1542-1546.	2.5	53
22	Gel-Fluid Transition in Dilute versus Concentrated DMPG Aqueous Dispersions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 239-246.	2.6	52
23	Mesoscopic Structure in the Chain-Melting Regime of Anionic Phospholipid Vesicles: DMPG. <i>Biophysical Journal</i> , 2004, 86, 3722-3733.	0.5	52
24	Coupling chemical reactions to membrane curvature: A photochemical morphology switch. <i>Europhysics Letters</i> , 1999, 48, 435-441.	2.0	48
25	Spinodal Fluctuations of Budding Vesicles. <i>Physical Review Letters</i> , 1995, 75, 3360-3363.	7.8	45
26	<i>Physarum polycephalum</i> Percolation as a Paradigm for Topological Phase Transitions in Transportation Networks. <i>Physical Review Letters</i> , 2012, 109, 078103.	7.8	44
27	Slow Relaxation Dynamics of Tubular Polymersomes after Thermal Quench. <i>Langmuir</i> , 2003, 19, 605-608.	3.5	40
28	Fronts and waves of actin polymerization in a bistability-based mechanism of circular dorsal ruffles. <i>Nature Communications</i> , 2017, 8, 15863.	12.8	38
29	<i>Physarum polycephalum</i> – a new take on a classic model system. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 413001.	2.8	37
30	Hyperviscous diblock copolymer vesicles. <i>European Physical Journal E</i> , 2002, 7, 241-250.	1.6	36
31	Myosin 1E localizes to actin polymerization sites in lamellipodia, affecting actin dynamics and adhesion formation. <i>Biology Open</i> , 2013, 2, 1288-1299.	1.2	33
32	Dynamics of Actin Waves on Patterned Substrates: A Quantitative Analysis of Circular Dorsal Ruffles. <i>PLoS ONE</i> , 2015, 10, e0115857.	2.5	32
33	Adaptive behaviour and learning in slime moulds: the role of oscillations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190757.	4.0	31
34	Giant vesicles at the prolate-oblate transition: A macroscopic bistable system. <i>Europhysics Letters</i> , 1996, 36, 325-330.	2.0	29
35	Curvature of Zwitterionic Membranes in Transverse pH Gradients. <i>Langmuir</i> , 1999, 15, 8543-8546.	3.5	29
36	Diacylglycerol-Rich Domain Formation in Giant Stearoyl-Oleoyl Phosphatidylcholine Vesicles Driven by Phospholipase C Activity. <i>Biophysical Journal</i> , 2003, 85, 2351-2362.	0.5	29

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37	Comment on "Gel-Fluid Transition in Dilute versus Concentrated DMPG Aqueous Dispersions" Journal of Physical Chemistry B, 2003, 107, 5391-5392.	2.6	17
38	A lumped parameter model of endoplasm flow in <i>Physarum polycephalum</i> explains migration and polarization-induced asymmetry during the onset of locomotion. PLoS ONE, 2019, 14, e0215622.	2.5	16
39	Form follows function: ultrastructure of different morphotypes of <i>Physarum polycephalum</i> . Journal Physics D: Applied Physics, 2018, 51, 134006.	2.8	15
40	Structuring precedes extension in percolating <i>Physarum polycephalum</i> networks. Nano Communication Networks, 2015, 6, 87-95.	2.9	14
41	Indentation analysis of active viscoelastic microplasmidia of <i>P. polycephalum</i> . Journal Physics D: Applied Physics, 2018, 51, 024005.	2.8	10
42	Membrane Curvature Induced by Sugar and Polymer Solutions. Materials Research Society Symposia Proceedings, 1997, 489, 101.	0.1	9
43	A novel growth mode of <i>Physarum polycephalum</i> during starvation. Journal Physics D: Applied Physics, 2018, 51, 244002.	2.8	8
44	Instabilities in the nonlinear relativistic mean-field model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 305-309.	4.1	7
45	Slime mold on the rise: the physics of <i>Physarum polycephalum</i> . Journal Physics D: Applied Physics, 2020, 53, 310201.	2.8	7
46	Nonlinear compliance of elastic layers to indentation. Biomechanics and Modeling in Mechanobiology, 2018, 17, 419-438.	2.8	6
47	Adhesion patterns in early cell spreading. Journal of Physics Condensed Matter, 2010, 22, 194106.	1.8	5
48	Correlation and Comparison of Cortical and Hippocampal Neural Progenitor Morphology and Differentiation through the Use of Micro- and Nano-Topographies. Journal of Functional Biomaterials, 2017, 8, 35.	4.4	5
49	Mitochondrial numbers increase during glucose deprivation in the slime mold <i>Physarum polycephalum</i> . Protoplasma, 2019, 256, 1647-1655.	2.1	5
50	Spatiotemporal Patterns of Noise-Driven Confined Actin Waves in Living Cells. Physical Review Letters, 2017, 118, 048102.	7.8	4
51	Amplitude hierarchy of vesicle shapes. , 1999, 25, 35-39.		3
52	Quantifying Membrane Asymmetry. Biophysical Journal, 1999, 76, 1723-1724.	0.5	2
53	Fluctuating Vesicle Shapes. Perspectives in Supramolecular Chemistry, 2007, , 149-167.	0.1	2
54	Dynamics of Membranes: From Passive to Active Systems. , 0, , 71-82.		1

#	ARTICLE	IF	CITATIONS
55	Flexible membranes with anchored polymers. Materials Research Society Symposia Proceedings, 1996, 463, 81.	0.1	1
56	Signatures of chemical reactions in the morphology and fluctuations of giant vesicles. Journal of Physics Condensed Matter, 2003, 15, S303-S308.	1.8	1
57	Biomechanical Aspects of Actin Bundle Dynamics. Frontiers in Cell and Developmental Biology, 2020, 8, 422.	3.7	1
58	Growth pattern of Physarum polycephalum during starvation. , 2016, , .		1
59	Functional Phases in Cell Attachment and Spreading. , 2005, , 1-13.		0
60	Light-Induced Shape Transitions of Giant Vesicles. Perspectives in Supramolecular Chemistry, 2007, , 335-339.	0.1	0
61	Micromanipulation of Tubular Vesicles. Perspectives in Supramolecular Chemistry, 2007, , 181-184.	0.1	0
62	Integrated biology of Physarum polycephalum: cell biology, biophysics, and behavior of plasmodial networks. , 2022, , 453-492.		0