

# GÃ¼nther Gerisch

## List of Publications by Year in descending order

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63  
papers

5,944  
citations

94269

37  
h-index

114278

63  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterning of the cell cortex and the localization of cleavage furrows in multi-nucleate cells. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	4
2	Genetic Instability Due to Spindle Anomalies Visualized in Mutants of Dictyostelium. <i>Cells</i> , 2021, 10, 2240.	1.8	1
3	Unilateral Cleavage Furrows in Multinucleate Cells. <i>Cells</i> , 2020, 9, 1493.	1.8	8
4	Formins specify membrane patterns generated by propagating actin waves. <i>Molecular Biology of the Cell</i> , 2020, 31, 373-385.	0.9	12
5	Decision Making in Phagocytosis. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1246, 71-81.	0.8	0
6	The Architecture of Traveling Actin Waves Revealed by Cryo-Electron Tomography. <i>Structure</i> , 2019, 27, 1211-1223.e5.	1.6	53
7	Co-existence of Ras activation in a chemotactic signal transduction pathway and in an autonomous wave - forming system. <i>Small GTPases</i> , 2019, 10, 72-80.	0.7	11
8	Oscillatory Switches of Dorso-Ventral Polarity in Cells Confined between Two Surfaces. <i>Biophysical Journal</i> , 2018, 115, 150-162.	0.2	11
9	Local Ras activation, PTEN pattern, and global actin flow in the chemotactic responses of over-sized cells. <i>Journal of Cell Science</i> , 2016, 129, 3462-72.	1.2	15
10	Wave Patterns in Cell Membrane and Actin Cortex Uncoupled from Chemotactic Signals. <i>Methods in Molecular Biology</i> , 2016, 1407, 79-96.	0.4	8
11	Actin Organization in Cells Responding to a Perforated Surface, Revealed by Live Imaging and Cryo-Electron Tomography. <i>Structure</i> , 2016, 24, 1031-1043.	1.6	50
12	Actin and PIP3 waves in giant cells reveal the inherent length scale of an excited state. <i>Journal of Cell Science</i> , 2014, 127, 4507-17.	1.2	83
13	Reversible Membrane Pearling in Live Cells upon Destruction of the Actin Cortex. <i>Biophysical Journal</i> , 2014, 106, 1079-1091.	0.2	27
14	Phase Contrast Cryo-Electron Tomography and Single Particle Analysis with a New Phase Plate. <i>Microscopy and Microanalysis</i> , 2014, 20, 232-233.	0.2	1
15	Membrane and actin reorganization in electropulse-induced cell fusion. <i>Journal of Cell Science</i> , 2013, 126, 2069-78.	1.2	30
16	PIP3 Waves and PTEN Dynamics in the Emergence of Cell Polarity. <i>Biophysical Journal</i> , 2012, 103, 1170-1178.	0.2	76
17	Different modes of state transitions determine pattern in the Phosphatidylinositide-Actin system. <i>BMC Cell Biology</i> , 2011, 12, 42.	3.0	47
18	Actin switches in phagocytosis. <i>Communicative and Integrative Biology</i> , 2011, 4, 344-345.	0.6	7

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19	Genetic evidence for concerted control of actin dynamics in cytokinesis, endocytic traffic, and cell motility by coronin and Aip1. <i>Cytoskeleton</i> , 2010, 67, 442-455.	1.0	27
20	Curvature recognition and force generation in phagocytosis. <i>BMC Biology</i> , 2010, 8, 154.	1.7	62
21	Self-organizing actin waves that simulate phagocytic cup structures. <i>PMC Biophysics</i> , 2010, 3, 7.	2.2	48
22	Retrieval of the Vacuolar H <sup>+</sup> -ATPase from Phagosomes Revealed by Live Cell Imaging. <i>PLoS ONE</i> , 2010, 5, e8585.	1.1	44
23	Self-organizing actin waves as planar phagocytic cup structures. <i>Cell Adhesion and Migration</i> , 2009, 3, 373-382.	1.1	68
24	The STE group kinase SepA controls cleavage furrow formation in <i>Dictyostelium</i> . <i>Cytoskeleton</i> , 2009, 66, 929-939.	4.4	15
25	The Three-Dimensional Dynamics of Actin Waves, a Model of Cytoskeletal Self-Organization. <i>Biophysical Journal</i> , 2009, 96, 2888-2900.	0.2	182
26	Propagating waves separate two states of actin organization in living cells. <i>HFSP Journal</i> , 2009, 3, 412-427.	2.5	57
27	Imaging Actin Cytoskeleton Dynamics in <i>Dictyostelium</i> Chemotaxis. <i>Methods in Molecular Biology</i> , 2009, 571, 385-400.	0.4	8
28	Reversal of Cell Polarity and Actin-Myosin Cytoskeleton Reorganization under Mechanical and Chemical Stimulation. <i>Biophysical Journal</i> , 2008, 94, 1063-1074.	0.2	69
29	Actin-cytoskeleton dynamics in non-monotonic cell spreading. <i>Cell Adhesion and Migration</i> , 2008, 2, 58-68.	1.1	26
30	Toward the Structure of Dynamic Membrane-Anchored Actin Networks. <i>Cell Adhesion and Migration</i> , 2007, 1, 145-148.	1.1	6
31	Organization of Actin Networks in Intact Filopodia. <i>Current Biology</i> , 2007, 17, 79-84.	1.8	151
32	Time-resolved responses to chemoattractant, characteristic of the front and tail of <i>Dictyostelium</i> cells. <i>FEBS Letters</i> , 2006, 580, 6707-6713.	1.3	30
33	Mechanically Induced Actin-mediated Rocketing of Phagosomes. <i>Molecular Biology of the Cell</i> , 2006, 17, 4866-4875.	0.9	32
34	Subsecond reorganization of the actin network in cell motility and chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7601-7606.	3.3	104
35	GFP-golgesin constructs to study Golgi tubulation and post-Golgi vesicle dynamics in phagocytosis. <i>European Journal of Cell Biology</i> , 2004, 83, 297-303.	1.6	12
36	Dynamic Actin Patterns and Arp2/3 Assembly at the Substrate-Attached Surface of Motile Cells. <i>Current Biology</i> , 2004, 14, 1-10.	1.8	256

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37	Actin-binding proteins required for reliable chromosome segregation in mitosis. <i>Cytoskeleton</i> , 2004, 57, 18-25.	4.4	21
38	Mobile Actin Clusters and Traveling Waves in Cells Recovering from Actin Depolymerization. <i>Biophysical Journal</i> , 2004, 87, 3493-3503.	0.2	179
39	Nuclear Pore Complex Structure and Dynamics Revealed by Cryoelectron Tomography. <i>Science</i> , 2004, 306, 1387-1390.	6.0	451
40	A brilliant monomeric red fluorescent protein to visualize cytoskeleton dynamics in <i>Dictyostelium</i> . <i>FEBS Letters</i> , 2004, 577, 227-232.	1.3	135
41	A Lim protein involved in the progression of cytokinesis and regulation of the mitotic spindle. <i>Cytoskeleton</i> , 2003, 56, 130-139.	4.4	53
42	[15] GFP-Fusion proteins as fluorescent reporters to study organelle and cytoskeleton dynamics in chemotaxis and phagocytosis. <i>Methods in Enzymology</i> , 2003, 361, 320-337.	0.4	24
43	TUBULAR-VESICULAR TRANSFORMATION IN THE CONTRACTILE VACUOLE SYSTEM OF <i>Dictyostelium</i> . <i>Cell Biology International</i> , 2002, 26, 845-852.	1.4	53
44	A talin fragment as an actin trap visualizing actin flow in chemotaxis, endocytosis, and cytokinesis. <i>Cytoskeleton</i> , 2002, 53, 136-149.	4.4	19
45	Endosome Fusion and Microtubule-Based Dynamics in the Early Endocytic Pathway of <i>Dictyostelium</i> . <i>Traffic</i> , 2002, 3, 791-800.	1.3	33
46	Sequence and analysis of chromosome 2 of <i>Dictyostelium discoideum</i> . <i>Nature</i> , 2002, 418, 79-85.	13.7	176
47	Macromolecular Architecture in Eukaryotic Cells Visualized by Cryoelectron Tomography. <i>Science</i> , 2002, 298, 1209-1213.	6.0	782
48	Dynamic organization of the actin system in the motile cells of <i>Dictyostelium</i> . <i>Journal of Muscle Research and Cell Motility</i> , 2002, 23, 639-649.	0.9	42
49	Dynamics of the vacuolar H(+)-ATPase in the contractile vacuole complex and the endosomal pathway of <i>Dictyostelium</i> cells. <i>Journal of Cell Science</i> , 2002, 115, 2893-905.	1.2	105
50	Dynamics of the <i>Dictyostelium</i> Arp2/3 complex in endocytosis, cytokinesis, and chemotaxis. <i>Cytoskeleton</i> , 2001, 50, 115-128.	4.4	126
51	A role for myosin VII in dynamic cell adhesion. <i>Current Biology</i> , 2001, 11, 318-329.	1.8	161
52	Cytokinesis without myosin II. <i>Current Opinion in Cell Biology</i> , 2000, 12, 126-132.	2.6	59
53	Two-step positioning of a cleavage furrow by cortexillin and myosin II. <i>Current Biology</i> , 2000, 10, 501-506.	1.8	31
54	Golgesin-GFP fusions as distinct markers for Golgi and post-Golgi vesicles in <i>Dictyostelium</i> cells. <i>Biology of the Cell</i> , 2000, 92, 495-511.	0.7	41

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55	Membrane Bending Modulus and Adhesion Energy of Wild-Type and Mutant Cells of Dictyostelium Lacking Talin or Cortexillins. <i>Biophysical Journal</i> , 1998, 74, 514-522.	0.2	226
56	G Protein Î² Subunitâ€“null Mutants Are Impaired in Phagocytosis and Chemotaxis Due to Inappropriate Regulation of the Actin Cytoskeleton. <i>Journal of Cell Biology</i> , 1998, 141, 1529-1537.	2.3	113
57	Talin-Null Cells of Dictyostelium Are Strongly Defective in Adhesion to Particle and Substrate Surfaces and Slightly Impaired in Cytokinesis. <i>Journal of Cell Biology</i> , 1997, 138, 349-361.	2.3	136
58	Three-dimensional Patterns and Redistribution of Myosin II and Actin in Mitotic Dictyostelium Cells. <i>Journal of Cell Biology</i> , 1997, 139, 1793-1804.	2.3	68
59	Microfilament dynamics during cell movement and chemotaxis monitored using a GFPâ€“actin fusion protein. <i>Current Biology</i> , 1997, 7, 176-183.	1.8	238
60	Cortexillins, Major Determinants of Cell Shape and Size, Are Actin-Bundling Proteins with a Parallel Coiled-Coil Tail. <i>Cell</i> , 1996, 86, 631-642.	13.5	172
61	Chemoattractant-controlled accumulation of coronin at the leading edge of Dictyostelium cells monitored using a green fluorescent proteinâ€“coronin fusion protein. <i>Current Biology</i> , 1995, 5, 1280-1285.	1.8	156
62	Coronin involved in phagocytosis: Dynamics of particle-induced relocalization visualized by a green fluorescent protein tag. <i>Cell</i> , 1995, 83, 915-924.	13.5	341
63	Membrane-Bound Cyclic AMP Phosphodiesterase in Chemotactically Responding Cells of Dictyostelium discoideum. <i>FEBS Journal</i> , 1972, 28, 136-142.	0.2	274