Katarina Wolf

List of Publications by Year
in descending order

37 papers	12,796 citations	136950 32 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	14232 citing authors

#	Article	IF	Citations
1	Actomyosin contractility requirements and reciprocal cellâ€“tissue mechanics for cancer cell invasion through collagen-based channels. European Physical Journal E, 2022, 45, 48.	1.6	7
2	Cell migration through three-dimensional confining pores: speed accelerations by deformation and recoil of the nucleus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180225.	4.0	62
3	Immature Neutrophils Released in Acute Inflammation Exhibit Efficient Migration despite Incomplete Segmentation of the Nucleus. Journal of Immunology, 2019, 202, 207-217.	0.8	33
4	Cancer invasion into musculature: Mechanics, molecules and implications. Seminars in Cell and Developmental Biology, 2019, 93, 36-45.	5.0	35
5	LÃ©vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	12.8	73
6	Bursting the Bubble â€“ Nuclear Envelope Rupture as a Path to Genomic Instability?. Trends in Cell Biology, 2017, 27, 546-555.	7.9	97
7	Deregulation of focal adhesion formation and cytoskeletal tension due to loss of A-type lamins. Cell Adhesion and Migration, 2017, 11, 447-463.	2.7	23
8	Nuclear envelope rupture: Actin fibers are putting the squeeze on the nucleus. Journal of Cell Biology, 2016, 215, 5-8.	5.2	55
9	Nuclear envelope rupture and repair during cancer cell migration. Science, 2016, 352, 353-358.	12.6	1,003
10	Collective cell migration: guidance principles and hierarchies. Trends in Cell Biology, 2015, 25, 556-566.	7.9	340
11	Cancer cell migration in 3D tissue: Negotiating space by proteolysis and nuclear deformability. Cell Adhesion and Migration, 2015, 9, 357-366.	2.7	69
12	Cell jamming: Collective invasion of mesenchymal tumor cells imposed by tissue confinement. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2386-2395.	2.4	260
13	Rho-directed forces in collective migration. Nature Cell Biology, 2014, 16, 208-210.	10.3	45
14	Physical limits of cell migration: Control by ECM space and nuclear deformation and tuning by proteolysis and traction force. Journal of Cell Biology, 2013, 201, 1069-1084.	5.2	1,123
15	Probing the compressibility of tumor cell nuclei by combined atomic forceâ€“confocal microscopy. Physical Biology, 2013, 10, 065002.	1.8	120
16	A Cellular Potts model simulating cell migration on and in matrix environments. Mathematical Biosciences and Engineering, 2013, 10, 235-261.	1.9	93
17	Extracellular matrix determinants of proteolytic and non-proteolytic cell migration. Trends in Cell Biology, 2011, 21, 736-744.	7.9	293
18	Nuclear mechanics during cell migration. Current Opinion in Cell Biology, 2011, 23, 55-64.	5.4	408

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19	p27^{kip1} Controls Cell Morphology and Motility by Regulating Microtubule-Dependent Lipid Raft Recycling. Molecular and Cellular Biology, 2010, 30, 2229-2240.	2.3	68
20	Plasticity of cell migration: a multiscale tuning model. Journal of Cell Biology, 2010, 188, 11-19.	5.2	1,187
21	MMP13 mediates cell cycle progression in melanocytes and melanoma cells: in vitro studies of migration and proliferation. Molecular Cancer, 2010, 9, 201.	19.2	49
22	Plasticity of cell migration: a multiscale tuning model. Journal of Experimental Medicine, 2010, 207, i4-i4.	8.5	14
23	The Tumor Suppressor Functions of p27^{kip1} Include Control of the Mesenchymal/Amoeboid Transition. Molecular and Cellular Biology, 2009, 29, 5031-5045.	2.3	60
24	Proteolytic interstitial cell migration: a five-step process. Cancer and Metastasis Reviews, 2009, 28, 129-135.	5.9	242
25	Mapping proteolytic cancer cell-extracellular matrix interfaces. Clinical and Experimental Metastasis, 2009, 26, 289-298.	3.3	213
26	Collagen-based cell migration models in vitro and in vivo. Seminars in Cell and Developmental Biology, 2009, 20, 931-941.	5.0	558
27	Tube Travel: The Role of Proteases in Individual and Collective Cancer Cell Invasion. Cancer Research, 2008, 68, 7247-7249.	0.9	297
28	Stathmin Activity Influences Sarcoma Cell Shape, Motility, and Metastatic Potential. Molecular Biology of the Cell, 2008, 19, 2003-2013.	2.1	121
29	Biological Second and Third Harmonic Generation Microscopy. Current Protocols in Cell Biology, 2007, 34, Unit 4.15.	2.3	76
30	Multi-step pericellular proteolysis controls the transition from individual to collective cancer cell invasion. Nature Cell Biology, 2007, 9, 893-904.	10.3	888
31	Molecular mechanisms of cancer cell invasion and plasticity. British Journal of Dermatology, 2006, 154, 11-15.	1.5	138
32	Functional imaging of pericellular proteolysis in cancer cell invasion. Biochimie, 2005, 87, 315-320.	2.6	62
33	Tumour-cell invasion and migration: diversity and escape mechanisms. Nature Reviews Cancer, 2003, 3, 362-374.	28.4	2,757
34	Compensation mechanism in tumor cell migration. Journal of Cell Biology, 2003, 160, 267-277.	5.2	1,284
35	Amoeboid shape change and contact guidance: T-lymphocyte crawling through fibrillar collagen is independent of matrix remodeling by MMPs and other proteases. Blood, 2003, 102, 3262-3269.	1.4	400
36	Proteolytic and non-proteolytic migration of tumour cells and leucocytes. Biochemical Society Symposia, 2003, 70, 277-285.	2.7	111

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37	Functional Hierarchy of Simultaneously Expressed Adhesion Receptors: Integrin Î±2Î²1 but Not CD44 Mediates MV3 Melanoma Cell Migration and Matrix Reorganization within Three-dimensional Hyaluronan-containing Collagen Matrices. Molecular Biology of the Cell, 1999, 10, 3067-3079.	2.1	121