Tobias Zech

List of Publications by Year
in descending order

27 papers	1,776 citations	361045 20 h-index	525886 27 g-index
29 all docs	29 docs citations	29 times ranked	3065 citing authors

#	Article	IF	Citations
1	Accumulation of raft lipids in T-cell plasma membrane domains engaged in TCR signalling. EMBO Journal, 2009, 28, 466-476.	3.5	252
2	Visualizing membrane microdomains by Laurdan 2-photon microscopy (Review). Molecular Membrane Biology, 2006, 23, 41-48.	2.0	151
3	N-WASP coordinates the delivery and F-actinâ€“mediated capture of MT1-MMP at invasive pseudopods. Journal of Cell Biology, 2012, 199, 527-544.	2.3	151
4	Actin polymerization driven by WASH causes V-ATPase retrieval and vesicle neutralization before exocytosis. Journal of Cell Biology, 2011, 193, 831-839.	2.3	144
5	Actin-Based Cell Protrusion in a 3D Matrix. Trends in Cell Biology, 2018, 28, 823-834.	3.6	128
6	The Arp2/3 activator WASH regulates Î±5Î²1-integrin-mediated invasive migration. Journal of Cell Science, 2011, 124, 3753-3759.	1.2	127
7	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. Developmental Cell, 2019, 51, 460-475.e10.	3.1	112
8	Functional Implications of Plasma Membrane Condensation for T Cell Activation. PLoS ONE, 2008, 3, e2262.	1.1	96
9	Plasma membrane segregation during T cell activation: probing the order of domains. Current Opinion in Immunology, 2007, 19, 470-475.	2.4	67
10	Loss of Scar/WAVE Complex Promotes N-WASP- and FAK-Dependent Invasion. Current Biology, 2013, 23, 107-117.	1.8	64
11	Cyclical Action of the WASH Complex: FAM21 and Capping Protein Drive WASH Recycling, Not Initial Recruitment. Developmental Cell, 2013, 24, 169-181.	3.1	52
12	Local actin nucleation tunes centrosomal microtubule nucleation during passage throughÂmitosis. EMBO Journal, 2019, 38, .	3.5	48
13	Synergistic Assembly of Linker for Activation of T Cells Signaling Protein Complexes in T Cell Plasma Membrane Domains. Journal of Biological Chemistry, 2003, 278, 20389-20394.	1.6	46
14	HRSâ€“WASH axis governs actin-mediated endosomal recycling and cell invasion. Journal of Cell Biology, 2018, 217, 2549-2564.	2.3	46
15	STEF/TIAM2-mediated Rac1 activity at the nuclear envelope regulates the perinuclear actin cap. Nature Communications, 2018, 9, 2124.	5.8	45
16	PIKfyve, MTMR3 and their product PtdIns5P regulate cancer cell migration and invasion through activation of Rac1. Biochemical Journal, 2014, 461, 383-390.	1.7	42
17	Gadkin negatively regulates cell spreading and motility via sequestration of the actin-nucleating ARP2/3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10382-10387.	3.3	40
18	Biochemical and Functional Analysis of Smallpox Growth Factor (SPGF) and Anti-SPGF Monoclonal Antibodies. Journal of Biological Chemistry, 2004, 279, 25838-25848.	1.6	39

#	Article	IF	Citations
19	Recognition Sequences for the GYF Domain Reveal a Possible Spliceosomal Function of CD2BP2. Journal of Biological Chemistry, 2004, 279, 28292-28297.	1.6	31
20	WIP and WICH/WIRE co-ordinately control invadopodium formation and maturation in human breast cancer cell invasion. Scientific Reports, 2016, 6, 23590.	1.6	22
21	Proteomic Characterization of Plasma Membrane-proximal T Cell Activation Responses. Journal of Biological Chemistry, 2011, 286, 4072-4080.	1.6	21
22	Actin on trafficking. Cell Adhesion and Migration, 2012, 6, 476-481.	1.1	13
23	Rab5 and Rac Team Up in Cell Motility. Cell, 2008, 134, 18-20.	13.5	12
24	Connecting the dots: combined control of endocytic recycling and degradation. Biochemical Society Transactions, 2020, 48, 2377-2386.	1.6	11
25	Cells in Slow Motion: Apparent Undercooling Increases Glassy Behavior at Physiological Temperatures. Advanced Materials, 2021, 33, e2101840.	11.1	9
26	Laminin N-terminus Î±31 is upregulated in invasive ductal breast cancer and changes the mode of tumour invasion. PLoS ONE, 2022, 17, e0264430.	1.1	3
27	Cells in Slow Motion: Cells in Slow Motion: Apparent Undercooling Increases Glassy Behavior at Physiological Temperatures (Adv. Mater. 29/2021). Advanced Materials, 2021, 33, 2170230.	11.1	1