

Christoph Ballestrem

List of Publications by Year in descending order

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53
papers

6,753
citations

109137

35
h-index

182168

51
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57
all docs

57
docs citations

57
times ranked

8983
citing authors

#	ARTICLE	IF	CITATIONS
1	Vinculin controls focal adhesion formation by direct interactions with talin and actin. <i>Journal of Cell Biology</i> , 2007, 179, 1043-1057.	2.3	778
2	Early molecular events in the assembly of matrix adhesions at the leading edge of migrating cells. <i>Journal of Cell Science</i> , 2003, 116, 4605-4613.	1.2	589
3	Cell behaviour on micropatterned substrata: limits of extracellular matrix geometry for spreading and adhesion. <i>Journal of Cell Science</i> , 2004, 117, 41-52.	1.2	361
4	Marching at the front and dragging behind. <i>Journal of Cell Biology</i> , 2001, 155, 1319-1332.	2.3	332
5	Vinculin Regulates the Recruitment and Release of Core Focal Adhesion Proteins in a Force-Dependent Manner. <i>Current Biology</i> , 2013, 23, 271-281.	1.8	310
6	Endocytic vesicles move at the tips of actin tails in cultured mast cells. <i>Nature Cell Biology</i> , 1999, 1, 72-74.	4.6	294
7	Î±-Smooth Muscle Actin Is Crucial for Focal Adhesion Maturation in Myofibroblasts. <i>Molecular Biology of the Cell</i> , 2003, 14, 2508-2519.	0.9	262
8	Vinculin, an adapter protein in control of cell adhesion signalling. <i>European Journal of Cell Biology</i> , 2011, 90, 157-163.	1.6	232
9	Syndecan-4-dependent Rac1 regulation determines directional migration in response to the extracellular matrix. <i>Journal of Cell Biology</i> , 2007, 177, 527-538.	2.3	221
10	Actin-dependent Lamellipodia Formation and Microtubule-dependent Tail Retraction Control-directed Cell Migration. <i>Molecular Biology of the Cell</i> , 2000, 11, 2999-3012.	0.9	212
11	JAM-2, a Novel Immunoglobulin Superfamily Molecule, Expressed by Endothelial and Lymphatic Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 2733-2741.	1.6	210
12	Assembly and mechanosensory function of focal adhesions: experiments and models. <i>European Journal of Cell Biology</i> , 2006, 85, 165-173.	1.6	202
13	Regulation of microtubule dynamics by inhibition of the tubulin deacetylase HDAC6. <i>Journal of Cell Science</i> , 2009, 122, 3531-3541.	1.2	201
14	Mechanotransduction at the cell-matrix interface. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 75-83.	2.3	198
15	Vinculin controls talin engagement with the actomyosin machinery. <i>Nature Communications</i> , 2015, 6, 10038.	5.8	175
16	Mammalian diaphanous-related formin Dia1 controls the organization of E-cadherin-mediated cell-cell junctions. <i>Journal of Cell Science</i> , 2007, 120, 3870-3882.	1.2	170
17	RIAM and Vinculin Binding to Talin Are Mutually Exclusive and Regulate Adhesion Assembly and Turnover. <i>Journal of Biological Chemistry</i> , 2013, 288, 8238-8249.	1.6	169
18	Distinct focal adhesion protein modules control different aspects of mechanotransduction. <i>Journal of Cell Science</i> , 2017, 130, 1612-1624.	1.2	132

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19	Mechanosensitive components of integrin adhesions: Role of vinculin. <i>Experimental Cell Research</i> , 2016, 343, 21-27.	1.2	116
20	Syndecan-4 Phosphorylation Is a Control Point for Integrin Recycling. <i>Developmental Cell</i> , 2013, 24, 472-485.	3.1	111
21	Force-induced cell polarisation is linked to RhoA-driven microtubule-independent focal-adhesion sliding. <i>Journal of Cell Science</i> , 2009, 122, 3644-3651.	1.2	104
22	Spectraplakins Promote Microtubule-Mediated Axonal Growth by Functioning As Structural Microtubule-Associated Proteins and EB1-Dependent +TIPs (Tip Interacting Proteins). <i>Journal of Neuroscience</i> , 2012, 32, 9143-9158.	1.7	104
23	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , 2010, 188, 891-903.	2.3	99
24	Molecular mapping of tyrosine-phosphorylated proteins in focal adhesions using fluorescence resonance energy transfer. <i>Journal of Cell Science</i> , 2006, 119, 866-875.	1.2	94
25	Photoresponsive Hydrogels with Photoswitchable Mechanical Properties Allow Time-Resolved Analysis of Cellular Responses to Matrix Stiffening. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7765-7776.	4.0	93
26	The Rac activator STEF (Tiam2) regulates cell migration by microtubule-mediated focal adhesion disassembly. <i>EMBO Reports</i> , 2010, 11, 292-298.	2.0	92
27	The C terminus of talin links integrins to cell cycle progression. <i>Journal of Cell Biology</i> , 2011, 195, 499-513.	2.3	89
28	Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. <i>Journal of Cell Biology</i> , 2016, 212, 349-364.	2.3	85
29	LD Motif Recognition by Talin: Structure of the Talin-DLC1 Complex. <i>Structure</i> , 2016, 24, 1130-1141.	1.6	68
30	<i>Drosophila</i> growth cones: A genetically tractable platform for the analysis of axonal growth dynamics. <i>Developmental Neurobiology</i> , 2010, 70, 58-71.	1.5	61
31	Paxillin and Hic-5 Interaction with Vinculin Is Differentially Regulated by Rac1 and RhoA. <i>PLoS ONE</i> , 2012, 7, e37990.	1.1	54
32	GAS2-like proteins mediate communication between microtubules and actin through interaction with end-binding proteins. <i>Journal of Cell Science</i> , 2014, 127, 2672-82.	1.2	51
33	An integrin-14-3-3-paxillin ternary complex mediates localised Cdc42 activity and accelerates cell migration. <i>Journal of Cell Science</i> , 2009, 122, 1654-1664.	1.2	46
34	Fluorescence Recovery After Photobleaching. <i>Methods in Molecular Biology</i> , 2011, 769, 387-402.	0.4	44
35	Combining AFM and Acoustic Probes to Reveal Changes in the Elastic Stiffness Tensor of Living Cells. <i>Biophysical Journal</i> , 2014, 107, 1502-1512.	0.2	40
36	Relief of talin autoinhibition triggers a force-independent association with vinculin. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	39

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37	Kinectin-mediated endoplasmic reticulum dynamics supports focal adhesion growth in the cellular lamella. <i>Journal of Cell Science</i> , 2010, 123, 3901-3912.	1.2	37
38	Vinculin is required to maintain glomerular barrier integrity. <i>Kidney International</i> , 2018, 93, 643-655.	2.6	36
39	Differential utilization of VLA-4 ($\alpha 4 \beta 1$) and -5 ($\alpha 5 \beta 1$) integrins during the development of mouse bone marrow-derived mast cells. <i>Differentiation</i> , 1996, 60, 317-325.	1.0	34
40	Low Intensity Pulsed Ultrasound (LIPUS) promotes cell motility through vinculin-controlled Rac1 GTPase activity. <i>Journal of Cell Science</i> , 2017, 130, 2277-2291.	1.2	33
41	The kinetics of force-induced cell reorganization depend on microtubules and actin. <i>Cytoskeleton</i> , 2010, 67, 241-250.	1.0	31
42	Characterization of G2L3 (GAS2-like 3), a New Microtubule- and Actin-binding Protein Related to Spectraplakins. <i>Journal of Biological Chemistry</i> , 2011, 286, 24987-24995.	1.6	31
43	Integration of Atomic Force and Confocal Microscopy. <i>Single Molecules</i> , 2000, 1, 135-137.	1.7	26
44	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 610-620.	1.7	23
45	Desmosome dualism – most of the junction is stable, but a plakophilin moiety is persistently dynamic. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	13
46	$\beta 1$ Integrin NPXY Motifs Regulate Kidney Collecting-Duct Development and Maintenance by Induced-Fit Interactions with Cytosolic Proteins. <i>Molecular and Cellular Biology</i> , 2012, 32, 4080-4091.	1.1	11
47	Interplay between the Actin Cytoskeleton, Focal Adhesions and Microtubules. , 0, , 75-99.		10
48	Vinculins interaction with talin is essential for mammary epithelial differentiation. <i>Scientific Reports</i> , 2019, 9, 18400.	1.6	7
49	Vinculin is required for neuronal mechanosensing but not for axon outgrowth. <i>Experimental Cell Research</i> , 2021, 407, 112805.	1.2	6
50	GAS2-like 1 coordinates cell division through its association with end-binding proteins. <i>Scientific Reports</i> , 2019, 9, 5805.	1.6	5
51	Application of Microscope-Based FRET to Study Molecular Interactions in Focal Adhesions of Live Cells. , 2005, 294, 321-334.		4
52	Light-Induced Molecular Adsorption of Proteins Using the PRIMO System for Micro-Patterning to Study Cell Responses to Extracellular Matrix Proteins. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
53	Talin gets SHANKed in the fight for integrin activation. <i>Nature Cell Biology</i> , 2017, 19, 265-267.	4.6	1