

Michael Krieg

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,817
citations

331670

21
h-index

477307

29
g-index

40
all docs

40
docs citations

40
times ranked

4145
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic force microscopy-based mechanobiology. <i>Nature Reviews Physics</i> , 2019, 1, 41-57.	26.6	500
2	Wnt11 Functions in Gastrulation by Controlling Cell Cohesion through Rab5c and E-Cadherin. <i>Developmental Cell</i> , 2005, 9, 555-564.	7.0	273
3	The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior. <i>Science</i> , 2020, 370, .	12.6	232
4	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. <i>PLoS Biology</i> , 2010, 8, e1000544.	5.6	231
5	Mechanical control of the sense of touch by β -spectrin. <i>Nature Cell Biology</i> , 2014, 16, 224-233.	10.3	173
6	Measuring cell adhesion forces of primary gastrulating cells from zebrafish using atomic force microscopy. <i>Journal of Cell Science</i> , 2005, 118, 4199-4206.	2.0	161
7	Feeling Force: Physical and Physiological Principles Enabling Sensory Mechanotransduction. <i>Annual Review of Cell and Developmental Biology</i> , 2015, 31, 347-371.	9.4	128
8	Electrostatic Cell-Surface Repulsion Initiates Lumen Formation in Developing Blood Vessels. <i>Current Biology</i> , 2010, 20, 2003-2009.	3.9	124
9	Movement Directionality in Collective Migration of Germ Layer Progenitors. <i>Current Biology</i> , 2010, 20, 161-169.	3.9	111
10	Phospholipids that Contain Polyunsaturated Fatty Acids Enhance Neuronal Cell Mechanics and Touch Sensation. <i>Cell Reports</i> , 2014, 6, 70-80.	6.4	98
11	Genetic defects in β -spectrin and tau sensitize <i>C. elegans</i> axons to movement-induced damage via torque-tension coupling. <i>ELife</i> , 2017, 6, .	6.0	93
12	Rationally designed azobenzene photoswitches for efficient two-photon neuronal excitation. <i>Nature Communications</i> , 2019, 10, 907.	12.8	86
13	Locating ligand binding and activation of a single antiporter. <i>EMBO Reports</i> , 2005, 6, 668-674.	4.5	85
14	New frontiers in atomic force microscopy: analyzing interactions from single-molecules to cells. <i>Current Opinion in Biotechnology</i> , 2009, 20, 4-13.	6.6	72
15	A Bond for a Lifetime: Employing Membrane Nanotubes from Living Cells to Determine Receptor-Ligand Kinetics. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9775-9777.	13.8	70
16	Direction Selectivity in <i>Drosophila</i> Proprioceptors Requires the Mechanosensory Channel Tmc. <i>Current Biology</i> , 2019, 29, 945-956.e3.	3.9	58
17	Pneumatic stimulation of <i>C. elegans</i> mechanoreceptor neurons in a microfluidic trap. <i>Lab on A Chip</i> , 2017, 17, 1116-1127.	6.0	55
18	FBN-1, a fibrillin-related protein, is required for resistance of the epidermis to mechanical deformation during <i>C. elegans</i> embryogenesis. <i>ELife</i> , 2015, 4, .	6.0	52

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19	The tubulin repertoire of <i>Caenorhabditis elegans</i> sensory neurons and its context-dependent role in process outgrowth. <i>Molecular Biology of the Cell</i> , 2016, 27, 3717-3728.	2.1	47
20	Mechanical systems biology of <i>C. elegans</i> touch sensation. <i>BioEssays</i> , 2015, 37, 335-344.	2.5	34
21	Assay for characterizing the recovery of vertebrate cells for adhesion measurements by single-cell force spectroscopy. <i>FEBS Letters</i> , 2014, 588, 3639-3648.	2.8	28
22	Cortical anchoring of the microtubule cytoskeleton is essential for neuron polarity. <i>ELife</i> , 2020, 9, .	6.0	26
23	An asymmetric mechanical code ciphers curvature-dependent proprioceptor activity. <i>Science Advances</i> , 2021, 7, eabg4617.	10.3	17
24	Using a Microfluidics Device for Mechanical Stimulation and High Resolution Imaging of <i>C. elegans</i> . <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	12
25	A Force Balance Can Explain Local and Global Cell Movements during Early Zebrafish Development. <i>Biophysical Journal</i> , 2015, 109, 407-414.	0.5	9
26	Direct Force Measurements of Subcellular Mechanics in Confinement using Optical Tweezers. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	7
27	Neuronal stretch reception – Making sense of the mechanosense. <i>Experimental Cell Research</i> , 2019, 378, 104-112.	2.6	6
28	Mechanosensitive body-brain interactions in <i>Caenorhabditis elegans</i> . <i>Current Opinion in Neurobiology</i> , 2022, 75, 102574.	4.2	4