

Thomas Iskratsch

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,249
citations

361413

20
h-index

361022

35
g-index

43
all docs

43
docs citations

43
times ranked

3602
citing authors

#	ARTICLE	IF	CITATIONS
1	Appreciating force and shape – the rise of mechanotransduction in cell biology. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 825-833.	37.0	634
2	Finding the weakest link – exploring integrin-mediated mechanical molecular pathways. <i>Journal of Cell Science</i> , 2012, 125, 3025-38.	2.0	215
3	Tropomyosin controls sarcomere-like contractions for rigidity sensing and suppressing growth on soft matrices. <i>Nature Cell Biology</i> , 2016, 18, 33-42.	10.3	168
4	Specificity analysis of lectins and antibodies using remodeled glycoproteins. <i>Analytical Biochemistry</i> , 2009, 386, 133-146.	2.4	124
5	FHOD1 Is Needed for Directed Forces and Adhesion Maturation during Cell Spreading and Migration. <i>Developmental Cell</i> , 2013, 27, 545-559.	7.0	107
6	Formin follows function: a muscle-specific isoform of FHOD3 is regulated by CK2 phosphorylation and promotes myofibril maintenance. <i>Journal of Cell Biology</i> , 2010, 191, 1159-1172.	5.2	102
7	Cardiomyocytes Sense Matrix Rigidity through a Combination of Muscle and Non-muscle Myosin Contractions. <i>Developmental Cell</i> , 2018, 44, 326-336.e3.	7.0	101
8	Micropatterning of TCR and LFA-1 ligands reveals complementary effects on cytoskeleton mechanics in T cells. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1272-1284.	1.3	90
9	Polymer fiber-based models of connective tissue repair and healing. <i>Biomaterials</i> , 2017, 112, 303-312.	11.4	80
10	±-Actinin links extracellular matrix rigidity-sensing contractile units with periodic cell-edge retractions. <i>Molecular Biology of the Cell</i> , 2016, 27, 3471-3479.	2.1	68
11	Early Events in Cell Spreading as a Model for Quantitative Analysis of Biomechanical Events. <i>Biophysical Journal</i> , 2014, 107, 2508-2514.	0.5	57
12	Endoplasmic spreading requires coalescence of vimentin intermediate filaments at force-bearing adhesions. <i>Molecular Biology of the Cell</i> , 2013, 24, 21-30.	2.1	45
13	Tumor Angiogenesis Is Differentially Regulated by Phosphorylation of Endothelial Cell Focal Adhesion Kinase Tyrosines-397 and -861. <i>Cancer Research</i> , 2019, 79, 4371-4386.	0.9	44
14	Two distinct phosphorylation events govern the function of muscle FHOD3. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 893-908.	5.4	41
15	Mix and (mis-)match – The mechanosensing machinery in the changing environment of the developing, healthy adult and diseased heart. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118436.	4.1	39
16	N-WASP-directed actin polymerization activates p130Cas phosphorylation and lamellipodium spreading. <i>Journal of Cell Science</i> , 2014, 127, 1394-405.	2.0	36
17	Probing the nanoscale organisation and multivalency of cell surface receptors: DNA origami nanoarrays for cellular studies with single-molecule control. <i>Faraday Discussions</i> , 2019, 219, 203-219.	3.2	36
18	Glioma stem cells invasive phenotype at optimal stiffness is driven by MGAT5 dependent mechanosensing. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 139.	8.6	33

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19	Costameres, dense plaques and podosomes: the cell matrix adhesions in cardiovascular mechanosensing. <i>Journal of Muscle Research and Cell Motility</i> , 2019, 40, 197-209.	2.0	26
20	Mammalian cells contain a second nucleocytoplasmic hexosaminidase. <i>Biochemical Journal</i> , 2009, 419, 83-90.	3.7	25
21	The Formin FHOD1 in Cardiomyocytes. <i>Anatomical Record</i> , 2014, 297, 1560-1570.	1.4	24
22	Calponin-3 is critical for coordinated contractility of actin stress fibers. <i>Scientific Reports</i> , 2018, 8, 17670.	3.3	22
23	Actin polymerization-dependent activation of Caspase promotes immunological synapse stability. <i>Immunology and Cell Biology</i> , 2016, 94, 981-993.	2.3	20
24	Pressure and stiffness sensing together regulate vascular smooth muscle cell phenotype switching. <i>Science Advances</i> , 2022, 8, eabm3471.	10.3	19
25	Aberrant development of neuromuscular junctions in glycosylation-defective <i>Largemyd</i> mice. <i>Neuromuscular Disorders</i> , 2009, 19, 366-378.	0.6	15
26	Contractile myosin rings and cofilin-mediated actin disassembly orchestrate ECM nanotopography sensing. <i>Biomaterials</i> , 2020, 232, 119683.	11.4	15
27	Formin-g muscle cytoarchitecture. <i>Bioarchitecture</i> , 2011, 1, 66-68.	1.5	12
28	Tools for studying and modulating (cardiac muscle) cell mechanics and mechanosensing across the scales. <i>Biophysical Reviews</i> , 2021, 13, 611-623.	3.2	10
29	Actin in striated muscle: recent insights into assembly and maintenance. <i>Biophysical Reviews</i> , 2012, 4, 17-25.	3.2	9
30	Lamin-A Mechano-Protects the Heart. <i>Developmental Cell</i> , 2019, 49, 821-822.	7.0	4
31	Announcing the call for the Special Issue on "Cardiovascular mechanobiology" a special issue to look at the state of the art and the newest insights into the role of mechanical forces in cardiovascular development, physiology, and disease. <i>Biophysical Reviews</i> , 2021, 13, 307-308.	3.2	2
32	Cardiovascular mechanobiology" a Special Issue to look at the state of the art and the newest insights into the role of mechanical forces in cardiovascular development, physiology and disease. <i>Biophysical Reviews</i> , 2021, 13, 575-577.	3.2	2
33	Factoring in the force: A novel role for eIF6. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	2
34	Sarcomere-Like Units Contract Cell Edges. <i>Biophysical Journal</i> , 2013, 104, 477a-478a.	0.5	1
35	FHOD1 at Early Integrin Adhesions Drives Cell Spreading. <i>Biophysical Journal</i> , 2014, 106, 163a.	0.5	0
36	Cellular Stress Affects the Nucleoskeleton in Dilated Cardiomyopathy. <i>Biophysical Journal</i> , 2016, 110, 366a-367a.	0.5	0

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37	Similar Effects of Humoral or Mechanical Stress on Cell-Cell Contacts in Cultured Cardiomyocytes. <i>Biophysical Journal</i> , 2018, 114, 496a.	0.5	0
38	Formin follows function: a muscle-specific isoform of FHOD3 is regulated by CK2 phosphorylation and promotes myofibril maintenance. <i>Journal of General Physiology</i> , 2011, 137, i1-i1.	1.9	0