

Carsten Grashoff

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7237774/carsten-grashoff-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

23
papers

2,763
citations

14
h-index

24
g-index

24
ext. papers

3,255
ext. citations

14.1
avg, IF

5.08
L-index

#	Paper	IF	Citations
23	Measuring mechanical tension across vinculin reveals regulation of focal adhesion dynamics. <i>Nature</i> , 2010 , 466, 263-6	50.4	1031
22	Dynamic molecular processes mediate cellular mechanotransduction. <i>Nature</i> , 2011 , 475, 316-23	50.4	684
21	Extracellular rigidity sensing by talin isoform-specific mechanical linkages. <i>Nature Cell Biology</i> , 2015 , 17, 1597-606	23.4	209
20	Integrin-linked kinase regulates chondrocyte shape and proliferation. <i>EMBO Reports</i> , 2003 , 4, 432-8	6.5	157
19	Tension-sensitive actin assembly supports contractility at the epithelial zonula adherens. <i>Current Biology</i> , 2014 , 24, 1689-99	6.3	131
18	How to Measure Molecular Forces in Cells: A Guide to Evaluating Genetically-Encoded FRET-Based Tension Sensors. <i>Cellular and Molecular Bioengineering</i> , 2015 , 8, 96-105	3.9	81
17	Multiplexing molecular tension sensors reveals piconewton force gradient across talin-1. <i>Nature Methods</i> , 2017 , 14, 1090-1096	21.6	79
16	Sensing the mechano-chemical properties of the extracellular matrix. <i>Matrix Biology</i> , 2017 , 64, 6-16	11.4	67
15	Integrin-linked kinase: integrin's mysterious partner. <i>Current Opinion in Cell Biology</i> , 2004 , 16, 565-71	9	66
14	The Piconewton Force Awakens: Quantifying Mechanics in Cells. <i>Trends in Cell Biology</i> , 2016 , 26, 838-847	18.3	51
13	Mechanical loading of desmosomes depends on the magnitude and orientation of external stress. <i>Nature Communications</i> , 2018 , 9, 5284	17.4	49
12	Investigating piconewton forces in cells by FRET-based molecular force microscopy. <i>Journal of Structural Biology</i> , 2017 , 197, 37-42	3.4	41
11	A small proportion of Talin molecules transmit forces at developing muscle attachments in vivo. <i>PLoS Biology</i> , 2019 , 17, e3000057	9.7	33
10	Generation and analysis of biosensors to measure mechanical forces within cells. <i>Methods in Molecular Biology</i> , 2013 , 1066, 169-84	1.4	21
9	Genetically Encoded FRET-Based Tension Sensors. <i>Current Protocols in Cell Biology</i> , 2019 , 83, e85	2.3	14
8	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , 2021 , 12, 919	17.4	12
7	Molecular Force Measurement with Tension Sensors. <i>Annual Review of Biophysics</i> , 2021 , 50, 595-616	21.1	9

6	Unforgettable force - crosstalk and memory of mechanosensitive structures. <i>Biological Chemistry</i> , 2019 , 400, 687-698	4.5	9
5	Metavinculin modulates force transduction in cell adhesion sites. <i>Nature Communications</i> , 2020 , 11, 6403	17.4	8
4	PECAM-1 supports leukocyte diapedesis by tension-dependent dephosphorylation of VE-cadherin. <i>EMBO Journal</i> , 2021 , 40, e106113	13	5
3	A small proportion of Talin molecules transmit forces to achieve muscle attachment in vivo		3
2	Peptide-PAINT Enables Investigation of Endogenous Talin with Molecular Scale Resolution in Cells and Tissues. <i>ChemBioChem</i> , 2021 , 22, 2872-2879	3.8	2
1	Piezo1 and Piezo2 foster mechanical gating of K channels. <i>Cell Reports</i> , 2021 , 37, 110070	10.6	1