

# Carsten Grashoff

## List of Publications by Year in Descending Order

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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	Piezo1 and Piezo2 foster mechanical gating of K channels. <i>Cell Reports</i> , <b>2021</b> , 37, 110070	10.6	1
22	Molecular Force Measurement with Tension Sensors. <i>Annual Review of Biophysics</i> , <b>2021</b> , 50, 595-616	21.1	9
21	PECAM-1 supports leukocyte diapedesis by tension-dependent dephosphorylation of VE-cadherin. <i>EMBO Journal</i> , <b>2021</b> , 40, e106113	13	5
20	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , <b>2021</b> , 12, 919	17.4	12
19	Peptide-PAINT Enables Investigation of Endogenous Talin with Molecular Scale Resolution in Cells and Tissues. <i>ChemBioChem</i> , <b>2021</b> , 22, 2872-2879	3.8	2
18	Metavinculin modulates force transduction in cell adhesion sites. <i>Nature Communications</i> , <b>2020</b> , 11, 6403	17.4	8
17	Genetically Encoded FRET-Based Tension Sensors. <i>Current Protocols in Cell Biology</i> , <b>2019</b> , 83, e85	2.3	14
16	A small proportion of Talin molecules transmit forces at developing muscle attachments in vivo. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000057	9.7	33
15	Unforgettable force - crosstalk and memory of mechanosensitive structures. <i>Biological Chemistry</i> , <b>2019</b> , 400, 687-698	4.5	9
14	Mechanical loading of desmosomes depends on the magnitude and orientation of external stress. <i>Nature Communications</i> , <b>2018</b> , 9, 5284	17.4	49
13	Investigating piconewton forces in cells by FRET-based molecular force microscopy. <i>Journal of Structural Biology</i> , <b>2017</b> , 197, 37-42	3.4	41
12	Sensing the mechano-chemical properties of the extracellular matrix. <i>Matrix Biology</i> , <b>2017</b> , 64, 6-16	11.4	67
11	Multiplexing molecular tension sensors reveals piconewton force gradient across talin-1. <i>Nature Methods</i> , <b>2017</b> , 14, 1090-1096	21.6	79
10	The Piconewton Force Awakens: Quantifying Mechanics in Cells. <i>Trends in Cell Biology</i> , <b>2016</b> , 26, 838-847	18.3	51
9	How to Measure Molecular Forces in Cells: A Guide to Evaluating Genetically-Encoded FRET-Based Tension Sensors. <i>Cellular and Molecular Bioengineering</i> , <b>2015</b> , 8, 96-105	3.9	81
8	Extracellular rigidity sensing by talin isoform-specific mechanical linkages. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 1597-606	23.4	209
7	Tension-sensitive actin assembly supports contractility at the epithelial zonula adherens. <i>Current Biology</i> , <b>2014</b> , 24, 1689-99	6.3	131

6	Generation and analysis of biosensors to measure mechanical forces within cells. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1066, 169-84	1.4	21
5	Dynamic molecular processes mediate cellular mechanotransduction. <i>Nature</i> , <b>2011</b> , 475, 316-23	50.4	684
4	Measuring mechanical tension across vinculin reveals regulation of focal adhesion dynamics. <i>Nature</i> , <b>2010</b> , 466, 263-6	50.4	1031
3	Integrin-linked kinase: integrin's mysterious partner. <i>Current Opinion in Cell Biology</i> , <b>2004</b> , 16, 565-71	9	66
2	Integrin-linked kinase regulates chondrocyte shape and proliferation. <i>EMBO Reports</i> , <b>2003</b> , 4, 432-8	6.5	157
1	A small proportion of Talin molecules transmit forces to achieve muscle attachment in vivo		3