

# Hannes Witt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1814020/publications.pdf>

Version: 2024-02-01

20  
papers

475  
citations

759233

12  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

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times ranked

586  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Nonlinear Loading-Rate-Dependent Force Response of Individual Vimentin Intermediate Filaments to Applied Strain. <i>Physical Review Letters</i> , 2017, 118, 048101.                               | 7.8  | 84        |
| 2  | Viscoelastic properties of vimentin originate from nonequilibrium conformational changes. <i>Science Advances</i> , 2018, 4, eaat1161.   | 10.3 | 52        |
| 3  | The non-bilayer lipid MGDG stabilizes the major light-harvesting complex (LHCII) against unfolding. <i>Scientific Reports</i> , 2017, 7, 5158.   | 3.3  | 40        |
| 4  | Vimentin Intermediate Filaments Undergo Irreversible Conformational Changes during Cyclic Loading. <i>Nano Letters</i> , 2019, 19, 7349-7356.  | 9.1  | 36        |
| 5  | Prestress and Area Compressibility of Actin Cortices Determine the Viscoelastic Response of Living Cells. <i>Physical Review Letters</i> , 2020, 125, 068101.                                      | 7.8  | 34        |
| 6  | Nonlinear mechanics of human mitotic chromosomes. <i>Nature</i> , 2022, 605, 545-550.  | 27.8 | 30        |
| 7  | SNARE-mediated membrane fusion trajectories derived from force-clamp experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13051-13056. | 7.1  | 28        |
| 8  | Lateral Subunit Coupling Determines Intermediate Filament Mechanics. <i>Physical Review Letters</i> , 2019, 123, 188102.   | 7.8  | 27        |
| 9  | Adhesion of Epithelial Cells to PNIPAm Treated Surfaces for Temperature-Controlled Cell-Sheet Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33516-33529.                   | 8.0  | 27        |
| 10 | CENP-B-mediated DNA loops regulate activity and stability of human centromeres. <i>Molecular Cell</i> , 2022, 82, 1751-1767.e8.  | 9.7  | 27        |
| 11 | The Nonbilayer Lipid MGDG and the Major Light-Harvesting Complex (LHCII) Promote Membrane Stacking in Supported Lipid Bilayers. <i>Biochemistry</i> , 2018, 57, 2278-2288.                         | 2.5  | 26        |
| 12 | Size, Kinetics, and Free Energy of Clusters Formed by Ultraweak Carbohydrate-Carbohydrate Bonds. <i>Biophysical Journal</i> , 2016, 110, 1582-1592.  | 0.5  | 13        |
| 13 | Adhesion strategies of <i>Dictyostelium discoideum</i> – a force spectroscopy study. <i>Nanoscale</i> , 2018, 10, 22504-22519.   | 5.6  | 13        |
| 14 | A Versatile Dinucleating Ligand Containing Sulfonamide Groups. <i>Inorganic Chemistry</i> , 2014, 53, 2873-2882.   | 4.0  | 12        |
| 15 | The Mechanics of Mitotic Chromosomes. <i>Quarterly Reviews of Biophysics</i> , 2021, 54, 1-41.   | 5.7  | 8         |
| 16 | Membrane fusion studied by colloidal probes. <i>European Biophysics Journal</i> , 2021, 50, 223-237.   | 2.2  | 6         |
| 17 | Precipitation of Calcium Carbonate Inside Giant Unilamellar Vesicles Composed of Fluid-Phase Lipids. <i>Langmuir</i> , 2020, 36, 13244-13250.  | 3.5  | 5         |
| 18 | Using Force Spectroscopy to Probe Coiled-Coil Assembly and Membrane Fusion. <i>Methods in Molecular Biology</i> , 2019, 1860, 145-159.   | 0.9  | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Detachment of giant liposomes " coupling of receptor mobility and membrane shape. Soft Matter, 2020, 16, 6424-6433. | 2.7 | 2         |
| 20 | Mechanics of mitotic chromosomes. Biophysical Journal, 2022, 121, 363a.   | 0.5 | 0         |