

# Stefan Wieser

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,962  
citations

516710

16  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2834  
citing authors

#	ARTICLE	IF	CITATIONS
1	Actin Flows Mediate a Universal Coupling between Cell Speed and Cell Persistence. <i>Cell</i> , 2015, 161, 374-386.	28.9	369
2	Cortical Contractility Triggers a Stochastic Switch to Fast Amoeboid Cell Motility. <i>Cell</i> , 2015, 160, 673-685.	28.9	345
3	The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior. <i>Science</i> , 2020, 370, .	12.6	232
4	Tracking single molecules in the live cell plasma membraneâ€™s and Donâ€™tâ€™s. <i>Methods</i> , 2008, 46, 131-140.	3.8	173
5	Diversified actin protrusions promote environmental exploration but are dispensable for locomotion of leukocytes. <i>Nature Cell Biology</i> , 2016, 18, 1253-1259.	10.3	150
6	(Un)Confined Diffusion of CD59 in the Plasma Membrane Determined by High-Resolution Single Molecule Microscopy. <i>Biophysical Journal</i> , 2007, 92, 3719-3728.	0.5	132
7	Different Types of Cell-to-Cell Connections Mediated by Nanotubular Structures. <i>Biophysical Journal</i> , 2008, 95, 4416-4425.	0.5	115
8	SIMPLE: Structured illumination based point localization estimator with enhanced precision. <i>Optics Express</i> , 2019, 27, 24578.	3.4	63
9	Spot Variation Fluorescence Correlation Spectroscopy Allows for Superresolution Chronoscopy of Confinement Times in Membranes. <i>Biophysical Journal</i> , 2011, 100, 2839-2845.	0.5	56
10	A reconstituted mammalian APC-kinesin complex selectively transports defined packages of axonal mRNAs. <i>Science Advances</i> , 2020, 6, eaaz1588.	10.3	48
11	Mesoscale Modeling and Single-Nucleosome Tracking Reveal Remodeling of Clutch Folding and Dynamics in Stem Cell Differentiation. <i>Cell Reports</i> , 2021, 34, 108614.	6.4	47
12	Versatile Analysis of Single-Molecule Tracking Data by Comprehensive Testing against Monte Carlo Simulations. <i>Biophysical Journal</i> , 2008, 95, 5988-6001.	0.5	44
13	Modulation-enhanced localization microscopy. <i>JPhys Photonics</i> , 2020, 2, 041001.	4.6	28
14	Cooperative epithelial phagocytosis enables error correction in the early embryo. <i>Nature</i> , 2021, 590, 618-623.	27.8	28
15	Cortical anchoring of the microtubule cytoskeleton is essential for neuron polarity. <i>ELife</i> , 2020, 9, .	6.0	26
16	Single molecule diffusion analysis on cellular nanotubules: Implications on plasma membrane structure below the diffraction limit. <i>Applied Physics Letters</i> , 2007, 91, 233901.	3.3	18
17	Cationic amphipathic peptides accumulate sialylated proteins and lipids in the plasma membrane of eukaryotic host cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2581-2590.	2.6	13
18	Hypolipidemic effects of herbal extracts by reduction of adipocyte differentiation, intracellular neutral lipid content, lipolysis, fatty acid exchange and lipid droplet motility. <i>Scientific Reports</i> , 2019, 9, 10492.	3.3	13

#	ARTICLE	IF	CITATIONS
19	Cell-to-cell variability in the diffusion constants of the plasma membrane proteins CD59 and CD147. <i>Soft Matter</i> , 2009, 5, 3287.	2.7	12
20	Lpe10p modulates the activity of the Mrs2p-based yeast mitochondrial Mg <sup>2+</sup> channel. <i>FEBS Journal</i> , 2010, 277, 3514-3525.	4.7	11
21	Fluorescence Microscopy-Based Quantitation of GLUT4 Translocation: High Throughput or High Content?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7964.	4.1	9
22	What Can We Learn from Single Molecule Trajectories?. <i>Current Protein and Peptide Science</i> , 2011, 12, 714-724.	1.4	8
23	Measuring Colocalization by Dual Color Single Molecule Imaging. <i>Behavior Research Methods</i> , 2010, , 21-40.	4.0	6
24	Neuronal stretch reception – Making sense of the mechanosense. <i>Experimental Cell Research</i> , 2019, 378, 104-112.	2.6	6
25	Actin Retrograde Flows Stabilize Cell Polarity by Mechano-Chemical Feedback Loops in Migrating Cells. <i>Biophysical Journal</i> , 2016, 110, 512a.	0.5	1
26	Actomyosin Network Contractility Triggers a Stochastic Transformation into Highly Motile Amoeboid Cells. <i>Biophysical Journal</i> , 2016, 110, 622a-623a.	0.5	1
27	What Can We Learn From Single-Molecule Diffusion. <i>Biophysical Journal</i> , 2010, 98, 186a.	0.5	0
28	Detection of Rare Interaction Events Via Combined Photobleaching and Single Molecule Microscopy. <i>Biophysical Journal</i> , 2010, 98, 587a.	0.5	0
29	HDL-Lipid Uptake is Regulated by Elastic Properties of the Plasma Membrane. <i>Biophysical Journal</i> , 2014, 106, 392a.	0.5	0
30	Cortical Flow-Driven Shapes of Non-Adherent Cells. <i>Biophysical Journal</i> , 2016, 110, 624a.	0.5	0
31	Thermoregulation of immune cell dynamics. , 2021, , .		0