# Hermann Schillers

List of Publications by Year
in descending order



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|---|---|---|---|
| 41 papers | 2,122 citations | 304701 22 h-index | 315719 38 g-index |
| 42 all docs | 42 docs citations | 42 times ranked | 2856 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Plasma sodium stiffens vascular endothelium and reduces nitric oxide release. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16281-16286. | 7.1 | 396 |
| 2 | Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. Scientific Reports, 2017, 7, 5117. | 3.3 | 195 |
| 3 | Elasticity measurement of living cells with an atomic force microscope: data acquisition and processing. Pflugers Archiv European Journal of Physiology, 2008, 457, 551-559. | 2.8 | 188 |
| 4 | Salt overload damages the glycocalyx sodium barrier of vascular endothelium. Pflugers Archiv European Journal of Physiology, 2011, 462, 519-528. | 2.8 | 186 |
| 5 | Human Endothelium: Target for Aldosterone. Hypertension, 2004, 43, 952-956. | 2.7 | 124 |
| 6 | Steroids dilate nuclear pores imaged with atomic force microscopy. Journal of Cellular Physiology, 2005, 202, 591-601. | 4.1 | 99 |
| 7 | PeakForce Tapping resolves individual microvilli on living cells. Journal of Molecular Recognition, 2016, 29, 95-101. | 2.1 | 97 |
| 8 | Differential action of steroid hormones on human endothelium. Journal of Cell Science, 2006, 119, 1926-1932. | 2.0 | 83 |
| 9 | C-Reactive Protein Makes Human Endothelium Stiff and Tight. Hypertension, 2011, 57, 231-237. | 2.7 | 80 |
| 10 | Real-Time Monitoring of Cell Elasticity Reveals Oscillating Myosin Activity. Biophysical Journal, 2010, 99, 3639-3646. | 0.5 | 78 |
| 11 | The genome of HSV-1 translocates through the nuclear pore as a condensed rod-like structure. Journal of Cell Science, 2006, 119, 23-30. | 2.0 | 52 |
| 12 | Imaging CFTR: A Tail to Tail Dimer with a Central Pore. Cellular Physiology and Biochemistry, 2004, 14, 1-10. | 1.6 | 49 |
| 13 | Myosin 1G (Myo1G) is a haematopoietic specific myosin that localises to the plasma membrane and regulates cell elasticity. FEBS Letters, 2010, 584, 493-499. | 2.8 | 46 |
| 14 | Determination of CFTR densities in erythrocyte plasma membranes using recognition imaging. Nanotechnology, 2008, 19, 384017. | 2.6 | 40 |
| 15 | Reduced number of CFTR molecules in erythrocyte plasma membrane of cystic fibrosis patients. Molecular Membrane Biology, 2006, 23, 317-323. | 2.0 | 38 |
| 16 | Endothelial EphB4 maintains vascular integrity and transport function in adult heart. ELife, 2019, 8, . | 6.0 | 38 |
| 17 | Paracellular Permeability of Bronchial Epithelium is Controlled by CFTR. Cellular Physiology and Biochemistry, 2011, 28, 289-296. | 1.6 | 31 |
| 18 | Plasma Membrane Plasticity of Xenopus laevis Oocyte Imaged with Atomic Force Microscopy. Cellular Physiology and Biochemistry, 2000, 10, 99-107. | 1.6 | 30 |

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|---|---|---|---|
| 19 | Dose-dependent endothelial cell growth and stiffening by aldosterone: endothelial protection by eplerenone. Journal of Hypertension, 2007, 25, 639-647. | 0.5 | 27 |
| 20 | Paracellular Transport through Healthy and Cystic Fibrosis Bronchial Epithelial Cell Lines â€“ Do We Have a Proper Model?. PLoS ONE, 2014, 9, e100621. | 2.5 | 27 |
| 21 | Imaging CFTR in its native environment. Pflugers Archiv European Journal of Physiology, 2008, 456, 163-177. | 2.8 | 26 |
| 22 | Single plasma membrane K+ channel detection by using dual-color quantum dot labeling. American Journal of Physiology - Cell Physiology, 2006, 291, C266-C269. | 4.6 | 22 |
| 23 | Cystic fibrosis transmembrane conductance regulator is involved in polyphenol-induced swelling of the endothelial glycocalyx. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1521-1530. | 3.3 | 22 |
| 24 | The anti-adhesive effect of glycoclusters onPseudomonas aeruginosabacteria adhesion to epithelial cells studied by AFM single cell force spectroscopy. Nanoscale, 2018, 10, 12771-12778. | 5.6 | 22 |
| 25 | Physiological Concept for a Blood Based CFTR Test. Cellular Physiology and Biochemistry, 2006, 17, 29-36. | 1.6 | 20 |
| 26 | Nanomechanics of Human Adipose-Derived Stem Cells: Small GTPases Impact Chondrogenic Differentiation. Tissue Engineering - Part A, 2012, 18, 1035-1044. | 3.1 | 19 |
| 27 | KCa3.1 channel inhibition leads to an ICAM-1 dependent increase of cell-cell adhesion between A549 lung cancer and HMEC-1 endothelial cells. Oncotarget, 2017, 8, 112268-112282. | 1.8 | 16 |
| 28 | IADS, a Decomposition Product of DIDS Activates a Cation Conductance in Xenopus Oocytes and Human Erythrocytes: New Compound for the Diagnosis of Cystic Fibrosis. Cellular Physiology and Biochemistry, 2006, 18, 243-252. | 1.6 | 13 |
| 29 | Quantification of heparin's antimetastatic effect by singleâ€cell force spectroscopy. Journal of Molecular Recognition, 2021, 34, e2854. | 2.1 | 10 |
| 30 | Ethanol alters access to the cell nucleus. Pflugers Archiv European Journal of Physiology, 2007, 453, 809-818. | 2.8 | 9 |
| 31 | Signals of the Neuropilin-1â€“MET Axis and Cues of Mechanical Force Exertion Converge to Elicit Inflammatory Activation in Coherent Endothelial Cells. Journal of Immunology, 2019, 202, 1559-1572. | 0.8 | 8 |
| 32 | Normal and Pathological Erythrocytes Studied by Atomic Force Microscopy. Methods in Molecular Biology, 2011, 736, 223-241. | 0.9 | 7 |
| 33 | Measuring the Elastic Properties of Living Cells. Methods in Molecular Biology, 2019, 1886, 291-313. | 0.9 | 6 |
| 34 | Uptake of platelets by cancer cells and recycling of the platelet protein CD42a. Journal of Thrombosis and Haemostasis, 2022, 20, 170-181. | 3.8 | 5 |
| 35 | Fifteen years of Servitude et Grandeur to the application of a biophysical technique in medicine: The tale of AFMBioMed. Journal of Molecular Recognition, 2019, 32, e2773. | 2.1 | 4 |
| 36 | Nanoarchitecture of Plasma Membrane Visualized with Atomic Force Microscopy. , 2001, , 405-424. | | 3 |

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|---|---|---|---|
| 37 | Atomic Force Microscopy in Nanomedicine. Nanoscience and Technology, 2006, , 1-26. | 1.5 | 3 |
| 38 | Restless cell syndrome. Journal of Physiology, 2014, 592, 1175-1176. | 2.9 | 2 |
| 39 | Special collection for the ninth AFM BioMed conference. Journal of Molecular Recognition, 2022, 35, e2954. | 2.1 | 1 |
| 40 | Atomic Force Microscopy in Nanomedicine. , 2010, , 713-738. | | 0 |
| 41 | Nanophysiology of Cells, Channels and Nuclear Pores. , 2011, , 117-144. | | 0 |