

Joachim Wegener

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.

88
papers

4,747
citations

39
h-index

68
g-index

93
ext. papers

5,148
ext. citations

5.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
88	Label-free impedance measurements to unravel biomolecular interactions involved in G protein-coupled receptor signaling. <i>Methods in Cell Biology</i> , 2022 ,	1.8	0
87	Laser-scribed graphene (LSG) as new electrode material for impedance-based cellular assays. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128443	8.5	14
86	PTER-assay: Combined Impedimetric Detection of Permeability (P) and Resistance (TER) of Barrier-Forming Cell Layers. <i>Scientific Reports</i> , 2020 , 10, 7373	4.9	1
85	Cells as Sensors 2020 , 105-127		
84	pH sensing in skin tumors: Methods to study the involvement of GPCRs, acid-sensing ion channels and transient receptor potential vanilloid channels. <i>Experimental Dermatology</i> , 2020 , 29, 1055-1061	4	0
83	Cytocompatibility of Mats Prepared from Different Electrospun Polymer Nanofibers.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4912-4921	4.1	2
82	Fasudil Loaded PLGA Microspheres as Potential Intravitreal Depot Formulation for Glaucoma Therapy. <i>Pharmaceutics</i> , 2020 , 12,	6.4	8
81	Impedance analysis of adherent cells after in situ electroporation-mediated delivery of bioactive proteins, DNA and nanoparticles in μ L-volumes. <i>Scientific Reports</i> , 2020 , 10, 21331	4.9	3
80	Increasing the throughput of label-free cell assays to study the activation of G-protein-coupled receptors by using a serial agonist exposure protocol. <i>Integrative Biology (United Kingdom)</i> , 2019 ,	3.7	1
79	Zellen als Sensoren 2019 , 109-132		
78	Measuring the Permeability of Endothelial Cell Monolayers: Teaching New Tricks to an Old Dog. <i>Biophysical Journal</i> , 2019 , 116, 1377-1379	2.9	1
77	Using animal cells as sensors for xenobiotics: monitoring phenotypic changes by multimodal impedance assays. <i>Current Opinion in Environmental Science and Health</i> , 2019 , 10, 30-37	8.1	3
76	Impedance-Based Assays Along the Life Span of Adherent Mammalian Cells In Vitro: From Initial Adhesion to Cell Death. <i>Bioanalytical Reviews</i> , 2019 , 1	1	5
75	Oxidative Stress Increases Endogenous Complement-Dependent Inflammatory and Angiogenic Responses in Retinal Pigment Epithelial Cells Independently of Exogenous Complement Sources. <i>Antioxidants</i> , 2019 , 8,	7.1	12
74	Tracking Hyaluronan: Molecularly Imprinted Polymer Coated Carbon Dots for Cancer Cell Targeting and Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3305-3313	9.5	111
73	Independent impedimetric analysis of two cell populations co-cultured on opposite sides of a porous support. <i>Experimental Cell Research</i> , 2017 , 351, 121-126	4.2	5
72	Label-free profiling of cell dynamics: A sequence of impedance-based assays to estimate tumor cell invasiveness in vitro. <i>Experimental Cell Research</i> , 2017 , 359, 243-250	4.2	10

71	Two-Photon Excitation Temperature Nanosensors Based on a Conjugated Fluorescent Polymer Doped with a Europium Probe. <i>Advanced Optical Materials</i> , 2016 , 4, 1854-1859	8.1	28
70	Label-free versus conventional cellular assays: Functional investigations on the human histamine H receptor. <i>Pharmacological Research</i> , 2016 , 114, 13-26	10.2	16
69	Pitfalls in assessing microvascular endothelial barrier function: impedance-based devices versus the classic macromolecular tracer assay. <i>Scientific Reports</i> , 2016 , 6, 23671	4.9	61
68	Label-free analysis of GPCR-stimulation: The critical impact of cell adhesion. <i>Pharmacological Research</i> , 2016 , 108, 65-74	10.2	16
67	Cell-Based Microarrays for In Vitro Toxicology. <i>Annual Review of Analytical Chemistry</i> , 2015 , 8, 335-58	12.5	11
66	Experimental tools to monitor the dynamics of endothelial barrier function: a survey of in vitro approaches. <i>Cell and Tissue Research</i> , 2014 , 355, 485-514	4.2	42
65	Flavonoids, flavonoid metabolites, and phenolic acids inhibit oxidative stress in the neuronal cell line HT-22 monitored by ECIS and MTT assay: a comparative study. <i>Journal of Natural Products</i> , 2014 , 77, 446-54	4.9	35
64	Melanoma-derived IL-1 converts vascular endothelium to a proinflammatory and procoagulatory phenotype via NFB activation. <i>Experimental Dermatology</i> , 2014 , 23, 670-6	4	19
63	Label-free monitoring of cell-based assays: combining impedance analysis with SPR for multiparametric cell profiling. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 63-70	11.8	39
62	A highly K(+)-selective phenylaza-[18]crown-6-lariat-ether-based fluoroionophore and its application in the sensing of K+ ions with an optical sensor film and in cells. <i>Chemistry - A European Journal</i> , 2013 , 19, 14911-7	4.8	57
61	Imaging of cellular oxygen via two-photon excitation of fluorescent sensor nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 257-262	8.5	26
60	Real-time label-free monitoring of the cellular response to osmotic stress using conventional and long-range surface plasmons. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 417-21	11.8	28
59	A whole-cell biosensor as in vitro alternative to skin irritation tests. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 156-62	11.8	24
58	Detection of micro- and nano-particles in animal cells by ToF-SIMS 3D analysis. <i>Surface and Interface Analysis</i> , 2013 , 45, 315-319	1.5	22
57	LMX1B is essential for the maintenance of differentiated podocytes in adult kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 1830-48	12.7	49
56	Macroporous silicon chips for laterally resolved, multi-parametric analysis of epithelial barrier function. <i>Lab on A Chip</i> , 2012 , 12, 2329-36	7.2	9
55	Monitoring passive transport of redox mediators across a confluent cell monolayer with single-cell resolution by means of scanning electrochemical microscopy. <i>Analytical Methods</i> , 2012 , 4, 623-629	3.2	19
54	Ultra-small, highly stable, and sensitive dual nanosensors for imaging intracellular oxygen and pH in cytosol. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17011-4	16.4	189

53	DNA Nanolamps Clicked DNA Conjugates with Photon Upconverting Nanoparticles as Highly Emissive Biomaterial. <i>ChemPlusChem</i> , 2012 , 77, 129-134	2.8	20
52	Toxicity of gold-nanoparticles: synergistic effects of shape and surface functionalization on micromotility of epithelial cells. <i>Nanotoxicology</i> , 2011 , 5, 254-68	5.3	126
51	Impedance analysis of adherent cells after in situ electroporation: non-invasive monitoring during intracellular manipulations. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4720-7	11.8	43
50	Neutrophils cross the BBB primarily on transcellular pathways: an in vitro study. <i>Brain Research</i> , 2011 , 1367, 62-76	3.7	48
49	High-Resolution Imaging of Nanostructured Si/SiO ₂ Substrates and Cell Monolayers Using Scanning Electrochemical Microscopy. <i>Electroanalysis</i> , 2011 , 23, 196-200	3	14
48	Self-referenced RGB colour imaging of intracellular oxygen. <i>Chemical Science</i> , 2011 , 2, 901	9.4	91
47	Simultaneous imaging and chemical attack of a single living cell within a confluent cell monolayer by means of scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2011 , 83, 169-74	7.8	36
46	The LIM-homeodomain transcription factor LMX1B supports the maintenance of differentiated podocytes by modulating the actin cytoskeleton. <i>FASEB Journal</i> , 2011 , 25, 951.1	0.9	
45	Cell Adhesion Monitoring Using Substrate-Integrated Sensors. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 2079-2104	2	22
44	Dynamics of human cancer cell lines monitored by electrical and acoustic fluctuation analysis. <i>Integrative Biology (United Kingdom)</i> , 2010 , 2, 139-50	3.7	48
43	Nanotopography follows force in TGF-beta1 stimulated epithelium. <i>Nanotechnology</i> , 2010 , 21, 265102	3.4	31
42	Cell Adhesion to Ordered Pores: Consequences for Cellular Elasticity. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 2287-2300	2	12
41	Label-free and time-resolved measurements of cell volume changes by surface plasmon resonance (SPR) spectroscopy. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1221-4	11.8	45
40	MEK5/ERK5 signaling modulates endothelial cell migration and focal contact turnover. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24972-80	5.4	28
39	Elasticity mapping of pore-suspending native cell membranes. <i>Small</i> , 2009 , 5, 832-8	11	22
38	Elasticity mapping of apical cell membranes. <i>Soft Matter</i> , 2009 , 5, 3262	3.6	12
37	Cytotoxicity of metal and semiconductor nanoparticles indicated by cellular micromotility. <i>ACS Nano</i> , 2009 , 3, 213-22	16.7	104
36	The C-terminus of the gamma 2 chain but not of the beta 3 chain of laminin-332 is indirectly but indispensably necessary for integrin-mediated cell reactions. <i>Experimental Cell Research</i> , 2008 , 314, 489-97	4.7	16

35	The chemical composition of animal cells reconstructed from 2D and 3D ToF-SIMS analysis. <i>Applied Surface Science</i> , 2008 , 255, 1249-1256	6.7	29
34	The chemical composition of animal cells and their intracellular compartments reconstructed from 3D mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5332-5	16.4	95
33	The impact of glia-derived extracellular matrices on the barrier function of cerebral endothelial cells: an in vitro study. <i>Experimental Cell Research</i> , 2007 , 313, 1318-25	4.2	91
32	Monitoring cell adhesion by piezoresonators: impact of increasing oscillation amplitudes. <i>Analytical Chemistry</i> , 2007 , 79, 3392-400	7.8	48
31	Scanning ion conductance microscopy with distance-modulated shear force control. <i>Nanotechnology</i> , 2007 , 18, 145505	3.4	31
30	Junctional adhesion molecule-a participates in the formation of apico-basal polarity through different domains. <i>Experimental Cell Research</i> , 2006 , 312, 3389-403	4.2	66
29	Adsorption and fluctuations of giant liposomes studied by electrochemical impedance measurements. <i>Langmuir</i> , 2006 , 22, 676-80	4	15
28	Cell motility probed by noise analysis of thickness shear mode resonators. <i>Analytical Chemistry</i> , 2006 , 78, 5184-91	7.8	52
27	Membrane stiffness of animal cells challenged by osmotic stress. <i>Small</i> , 2006 , 2, 1016-20	11	46
26	Bradykinin shifts endothelial fluid passage from para- to transcellular routes. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 453, 157-65	4.6	15
25	In vitro study of malaria parasite induced disruption of blood-brain barrier. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 335, 810-8	3.4	22
24	Automated multi-well device to measure transepithelial electrical resistances under physiological conditions. <i>BioTechniques</i> , 2004 , 37, 590, 592-4, 596-7	2.5	79
23	Electrical wound-healing assay for cells in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1554-9	11.5	339
22	Tyrosine phosphatase inhibition induces loss of blood-brain barrier integrity by matrix metalloproteinase-dependent and -independent pathways. <i>Brain Research</i> , 2004 , 995, 184-96	3.7	85
21	Bioelectrical impedance assay to monitor changes in cell shape during apoptosis. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 583-94	11.8	253
20	Adhesion of liposomes: a quartz crystal microbalance study. <i>Measurement Science and Technology</i> , 2003 , 14, 1865-1875	2	35
19	Adhesion Kinetics of Functionalized Vesicles and Mammalian Cells: A Comparative Study \square <i>Langmuir</i> , 2003 , 19, 1816-1823	4	44
18	Real-time impedance assay to follow the invasive activities of metastatic cells in culture. <i>BioTechniques</i> , 2002 , 33, 842-4, 846, 848-50	2.5	122

17	Recovery of adherent cells after in situ electroporation monitored electrically. <i>BioTechniques</i> , 2002 , 33, 348, 350, 352 passim	2.5	56
16	Porcine Choroid plexus epithelial cells in culture: regulation of barrier properties and transport processes. <i>Microscopy Research and Technique</i> , 2001 , 52, 137-52	2.8	64
15	The quartz crystal microbalance as a novel means to study cell-substrate interactions in situ. <i>Cell Biochemistry and Biophysics</i> , 2001 , 34, 121-51	3.2	90
14	Barrier function of porcine choroid plexus epithelial cells is modulated by cAMP-dependent pathways in vitro. <i>Brain Research</i> , 2000 , 853, 115-24	3.7	72
13	Electric cell-substrate impedance sensing (ECIS) as a noninvasive means to monitor the kinetics of cell spreading to artificial surfaces. <i>Experimental Cell Research</i> , 2000 , 259, 158-66	4.2	595
12	Analysis of the composite response of shear wave resonators to the attachment of mammalian cells. <i>Biophysical Journal</i> , 2000 , 78, 2821-33	2.9	141
11	Use of electrochemical impedance measurements to monitor beta-adrenergic stimulation of bovine aortic endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1999 , 437, 925-34	4.6	90
10	The polarity of choroid plexus epithelial cells in vitro is improved in serum-free medium. <i>Journal of Neurochemistry</i> , 1998 , 71, 1141-50	6	46
9	Hydrocortisone reinforces the blood-brain barrier properties in a serum free cell culture system. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 244, 312-6	3.4	201
8	Impedance and shear wave resonance analysis of ligand-receptor interactions at functionalized surfaces and of cell monolayers. <i>Biosensors and Bioelectronics</i> , 1997 , 12, 787-808	11.8	56
7	Porcine choroid plexus cells in culture: expression of polarized phenotype, maintenance of barrier properties and apical secretion of CSF-components. <i>European Journal of Cell Biology</i> , 1997 , 74, 68-78	6.1	57
6	Impedance analysis of epithelial and endothelial cell monolayers cultured on gold surfaces. <i>Journal of Proteomics</i> , 1996 , 32, 151-70		104
5	Double-mode impedance analysis of epithelial cell monolayers cultured on shear wave resonators. <i>European Biophysics Journal</i> , 1996 , 25, 93-103	1.9	80
4	The role of non-lamellar lipid structures in the formation of tight junctions. <i>Chemistry and Physics of Lipids</i> , 1996 , 81, 229-255	3.7	30
3	Applications of impedance spectroscopy in biochemistry and biophysics. <i>Acta Biochimica Polonica</i> , 1996 , 43, 339-48	2	
2	Stereoselective Synthesis of Exocyclic Trisubstituted Double Bonds. <i>Angewandte Chemie International Edition in English</i> , 1974 , 13, 602-603		10
1	Impedance Analysis of Cell Junctions325		2