

# Helmut Bischof

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

984  
citations

567281

15  
h-index

477307

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1556  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing K <sup>+</sup> ions and K <sup>+</sup> channel functions in cancer cell metabolism using fluorescent biosensors. <i>Free Radical Biology and Medicine</i> , 2022, 181, 43-51.	2.9	14
2	Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	7
3	Potassium Channels in Cancer. <i>Handbook of Experimental Pharmacology</i> , 2021, 267, 253-275.	1.8	6
4	Slack K <sup>+</sup> channels attenuate NMDA-induced excitotoxic brain damage and neuronal cell death. <i>FASEB Journal</i> , 2021, 35, e21568.	0.5	16
5	Potassium ions promote hexokinase-II dependent glycolysis. <i>IScience</i> , 2021, 24, 102346.	4.1	12
6	Unveiling the K <sup>+</sup> -sensitivity of cell metabolism using genetically encoded, FRET-based K <sup>+</sup> , glucose, and ATP biosensors. <i>STAR Protocols</i> , 2021, 2, 100843.	1.2	2
7	Investigating the K <sup>+</sup> sensitivity of cellular metabolism by extracellular flux analysis. <i>STAR Protocols</i> , 2021, 2, 100876.	1.2	4
8	Immobilization of Recombinant Fluorescent Biosensors Permits Imaging of Extracellular Ion Signals. <i>ACS Sensors</i> , 2021, 6, 3994-4000.	7.8	10
9	Metabolic Profiling of Single Cancer Cells Using Mitochondrial ATP Probes. <i>STAR Protocols</i> , 2020, 1, 100048.	1.2	1
10	Fatty acids as biomimetic replication agents for luminescent metal-organic framework patterns. <i>Chemical Communications</i> , 2020, 56, 12733-12736.	4.1	4
11	ER-to-Golgi Transport in HeLa Cells Displays High Resilience to Ca <sup>2+</sup> and Energy Stresses. <i>Cells</i> , 2020, 9, 2311.	4.1	9
12	The ER chaperone calnexin controls mitochondrial positioning and respiration. <i>Science Signaling</i> , 2020, 13, .	3.6	32
13	TRIC-A shapes oscillatory Ca <sup>2+</sup> signals by interaction with STIM1/Orai1 complexes. <i>PLoS Biology</i> , 2020, 18, e3000700.	5.6	12
14	Purification and Application of Genetically Encoded Potassium Ion Indicators for Quantification of Potassium Ion Concentrations within Biological Samples. <i>Current Protocols in Chemical Biology</i> , 2019, 11, e71.	1.7	3
15	Tracking intra- and inter-organelle signaling of mitochondria. <i>FEBS Journal</i> , 2019, 286, 4378-4401.	4.7	23
16	MICU1 controls cristae junction and spatially anchors mitochondrial Ca <sup>2+</sup> uniporter complex. <i>Nature Communications</i> , 2019, 10, 3732.	12.8	90
17	Development and Application of Sub-Mitochondrial Targeted Ca <sup>2+</sup> Biosensors. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 449.	3.7	11
18	Live cell imaging of signaling and metabolic activities. , 2019, 202, 98-119.		41

#	ARTICLE	IF	CITATIONS
19	Live-Cell Imaging of Physiologically Relevant Metal Ions Using Genetically Encoded FRET-Based Probes. <i>Cells</i> , 2019, 8, 492.	4.1	71
20	pH-Lemon, a Fluorescent Protein-Based pH Reporter for Acidic Compartments. <i>ACS Sensors</i> , 2019, 4, 883-891.	7.8	99
21	Visualization of Sirtuin 4 Distribution between Mitochondria and the Nucleus, Based on Bimolecular Fluorescence Self-Complementation. <i>Cells</i> , 2019, 8, 1583.	4.1	20
22	Mitochondria supply ATP to the ER through a mechanism antagonized by cytosolic Ca <sup>2+</sup> . <i>ELife</i> , 2019, 8, .	6.0	51
23	Real-Time Imaging of Nitric Oxide Signals in Individual Cells Using geNOps. <i>Methods in Molecular Biology</i> , 2018, 1747, 23-34.	0.9	8
24	Genetic biosensors for imaging nitric oxide in single cells. <i>Free Radical Biology and Medicine</i> , 2018, 128, 50-58.	2.9	36
25	Real-Time Imaging of Mitochondrial ATP Dynamics Reveals the Metabolic Setting of Single Cells. <i>Cell Reports</i> , 2018, 25, 501-512.e3.	6.4	91
26	Intact mitochondrial Ca <sup>2+</sup> uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). <i>Free Radical Biology and Medicine</i> , 2017, 102, 248-259.	2.9	28
27	Application of Genetically Encoded Fluorescent Nitric Oxide (NO&#8226;) Probes, the geNOps, for Real-time Imaging of NO&#8226; Signals in Single Cells. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	16
28	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 70, 59-67.	2.7	22
29	Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. <i>Nature Communications</i> , 2017, 8, 1422.	12.8	130
30	Development of novel FP-based probes for live-cell imaging of nitric oxide dynamics. <i>Nature Communications</i> , 2016, 7, 10623.	12.8	84
31	Generation of Red-Shifted Cameleons for Imaging Ca <sup>2+</sup> Dynamics of the Endoplasmic Reticulum. <i>Sensors</i> , 2015, 15, 13052-13068.	3.8	26
32	Hexokinase-II Enzymatic Activity Requires High Levels of Intracellular K <sup>+</sup> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
33	Salivary potassium measured by genetically encoded potassium ion indicators as a surrogate for plasma potassium levels in hemodialysis patients â€” a proof-of-concept study. <i>Nephrology Dialysis Transplantation</i> , 0, , .	0.7	0