Helmut Bischof

List of Publications by Year
in descending order

33	984	567281 15	477307 29
papers	citations	h-index	g-index

38	38	38	1556
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. Nature Communications, 2017, 8, 1422.	12.8	130
2	pH-Lemon, a Fluorescent Protein-Based pH Reporter for Acidic Compartments. ACS Sensors, 2019, 4, 883-891.	7.8	99
3	Real-Time Imaging of Mitochondrial ATP Dynamics Reveals the Metabolic Setting of Single Cells. Cell Reports, 2018, 25, 501-512.e3.	6.4	91
4	MICU1 controls cristae junction and spatially anchors mitochondrial Ca2+ uniporter complex. Nature Communications, 2019, 10, 3732.	12.8	90
5	Development of novel FP-based probes for live-cell imaging of nitric oxide dynamics. Nature Communications, 2016, 7, 10623.	12.8	84
6	Live-Cell Imaging of Physiologically Relevant Metal Ions Using Genetically Encoded FRET-Based Probes. Cells, 2019, 8, 492.	4.1	71
7	Mitochondria supply ATP to the ER through a mechanism antagonized by cytosolic Ca2+. ELife, 2019, 8, .	6.0	51
8	Live cell imaging of signaling and metabolic activities. , 2019, 202, 98-119.		41
9	Genetic biosensors for imaging nitric oxide in single cells. Free Radical Biology and Medicine, 2018, 128, 50-58.	2.9	36
10	The ER chaperone calnexin controls mitochondrial positioning and respiration. Science Signaling, 2020, 13, .	3.6	32
11	Intact mitochondrial Ca 2+ uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). Free Radical Biology and Medicine, 2017, 102, 248-259.	2.9	28
12	Generation of Red-Shifted Cameleons for Imaging Ca2+ Dynamics of the Endoplasmic Reticulum. Sensors, 2015, 15, 13052-13068.	3.8	26
13	Tracking intraâ€•and interâ€•organelle signaling of mitochondria. FEBS Journal, 2019, 286, 4378-4401.	4.7	23
14	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. Nitric Oxide - Biology and Chemistry, 2017, 70, 59-67.	2.7	22
15	Visualization of Sirtuin 4 Distribution between Mitochondria and the Nucleus, Based on Bimolecular Fluorescence Self-Complementation. Cells, 2019, 8, 1583.	4.1	20
16	Application of Genetically Encoded Fluorescent Nitric Oxide (NO•) Probes, the geNOps, for Real-time Imaging of NO• Signals in Single Cells. Journal of Visualized Experiments, 2017, , .	0.3	16
17	Slack K ⁺ channels attenuate NMDAâ€•induced excitotoxic brain damage and neuronal cell death. FASEB Journal, 2021, 35, e21568.	0.5	16
18	Assessing K+ ions and K+ channel functions in cancer cell metabolism using fluorescent biosensors. Free Radical Biology and Medicine, 2022, 181, 43-51.	2.9	14

#	Article	IF	Citations
19	TRIC-A shapes oscillatory Ca2+ signals by interaction with STIM1/Orai1 complexes. PLoS Biology, 2020, 18, e3000700.	5.6	12
20	Potassium ions promote hexokinase-II dependent glycolysis. IScience, 2021, 24, 102346.	4.1	12
21	Development and Application of Sub-Mitochondrial Targeted Ca2 + Biosensors. Frontiers in Cellular Neuroscience, 2019, 13, 449.	3.7	11
22	Immobilization of Recombinant Fluorescent Biosensors Permits Imaging of Extracellular Ion Signals. ACS Sensors, 2021, 6, 3994-4000.	7.8	10
23	ER-to-Golgi Transport in HeLa Cells Displays High Resilience to Ca2+ and Energy Stresses. Cells, 2020, 9, 2311.	4.1	9
24	Real-Time Imaging of Nitric Oxide Signals in Individual Cells Using geNOps. Methods in Molecular Biology, 2018, 1747, 23-34.	0.9	8
25	Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. Advanced Materials Technologies, 2022, 7, .	5.8	7
26	Potassium Channels in Cancer. Handbook of Experimental Pharmacology, 2021, 267, 253-275.	1.8	6
27	Fatty acids as biomimetic replication agents for luminescent metalâ€“organic framework patterns. Chemical Communications, 2020, 56, 12733-12736.	4.1	4
28	Investigating the K+ sensitivity of cellular metabolism by extracellular flux analysis. STAR Protocols, 2021, 2, 100876.	1.2	4
29	Purification and Application of Genetically Encoded Potassium Ion Indicators for Quantification of Potassium Ion Concentrations within Biological Samples. Current Protocols in Chemical Biology, 2019, 11, e71.	1.7	3
30	Unveiling the K+-sensitivity of cell metabolism using genetically encoded, FRET-based K+, glucose, and ATP biosensors. STAR Protocols, 2021, 2, 100843.	1.2	2
31	Metabolic Profiling of Single Cancer Cells Using Mitochondrial ATP Probes. STAR Protocols, 2020, 1, 100048.	1.2	1
32	Hexokinase-II Enzymatic Activity Requires High Levels of Intracellular K+. SSRN Electronic Journal, 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. Nephrology Dialysis Transplantation, 0, , .	0.7	0