

Caroline Beck Adiels

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

648
citations

623734

14
h-index

610901

24
g-index

29
all docs

29
docs citations

29
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and fabrication of a scalable liver-lobule-on-a-chip microphysiological platform. <i>Biofabrication</i> , 2017, 9, 015014.	7.1	105
2	Sustained glycolytic oscillations in individual isolated yeast cells. <i>FEBS Journal</i> , 2012, 279, 2837-2847.	4.7	64
3	The yeast osmostress response is carbon source dependent. <i>Scientific Reports</i> , 2017, 7, 990.	3.3	55
4	Relation of the size and intracellular sorting of apoB to the formation of VLDL 1 and VLDL 2. <i>Journal of Lipid Research</i> , 2005, 46, 104-114.	4.2	44
5	Osmostress-Induced Cell Volume Loss Delays Yeast Hog1 Signaling by Limiting Diffusion Processes and by Hog1-Specific Effects. <i>PLoS ONE</i> , 2013, 8, e80901.	2.5	43
6	Yeast AMP-activated Protein Kinase Monitors Glucose Concentration Changes and Absolute Glucose Levels. <i>Journal of Biological Chemistry</i> , 2014, 289, 12863-12875.	3.4	38
7	Tissue-Specific Targeting for Cardiovascular Gene Transfer. Potential Vectors and Future Challenges. <i>Current Gene Therapy</i> , 2004, 4, 457-467.	2.0	35
8	Allosteric regulation of phosphofructokinase controls the emergence of glycolytic oscillations in isolated yeast cells. <i>FEBS Journal</i> , 2014, 281, 2784-2793.	4.7	33
9	Epigallocatechin gallate increases the formation of cytosolic lipid droplets and decreases the secretion of apoB-100 VLDL. <i>Journal of Lipid Research</i> , 2006, 47, 67-77.	4.2	30
10	Fast and Accurate Nanoparticle Characterization Using Deep-Learning-Enhanced Off-Axis Holography. <i>ACS Nano</i> , 2021, 15, 2240-2250.	14.6	28
11	Entrainment of heterogeneous glycolytic oscillations in single cells. <i>Scientific Reports</i> , 2015, 5, 9404.	3.3	26
12	A Nonlinear Mixed Effects Approach for Modeling the Cell-To-Cell Variability of Mig1 Dynamics in Yeast. <i>PLoS ONE</i> , 2015, 10, e0124050.	2.5	25
13	Hydrodynamic Cell Trapping for High Throughput Single-Cell Applications. <i>Micromachines</i> , 2013, 4, 414-430.	2.9	23
14	Single-cell study links metabolism with nutrient signaling and reveals sources of variability. <i>BMC Systems Biology</i> , 2017, 11, 59.	3.0	22
15	Extracting quantitative biological information from bright-field cell images using deep learning. <i>Biophysics Reviews</i> , 2021, 2, .	2.7	18
16	Intercellular communication induces glycolytic synchronization waves between individually oscillating cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2010075118.	7.1	12
17	Liver-on-a-chip devices: the pros and cons of complexity. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 323, G188-G204.	3.4	12
18	Heterogeneity of glycolytic oscillatory behaviour in individual yeast cells. <i>FEBS Letters</i> , 2014, 588, 3-7.	2.8	11

#	ARTICLE	IF	CITATIONS
19	Induction of sustained glycolytic oscillations in single yeast cells using microfluidics and optical tweezers. , 2012, , .		5
20	A Single-Cell Study of a Highly Effective Hog1 Inhibitor for in Situ Yeast Cell Manipulation. Micromachines, 2014, 5, 81-96.	2.9	5
21	Phosphofructokinase controls the acetaldehyde-induced phase shift in isolated yeast glycolytic oscillators. Biochemical Journal, 2019, 476, 353-363.	3.7	5
22	Applying Microfluidic Systems to Study Effects of Glucose at Single-Cell Level. Methods in Molecular Biology, 2018, 1713, 109-121.	0.9	4
23	Studying Glycolytic Oscillations in Individual Yeast Cells by Combining Fluorescence Microscopy with Microfluidics and Optical Tweezers. Current Protocols in Cell Biology, 2019, 82, e70.	2.3	2
24	Design and evaluation of a microfluidic system for inhibition studies of yeast cell signaling. Proceedings of SPIE, 2012, , .	0.8	1
25	Design and fabrication of high-throughput application-specific microfluidic devices for studying single-cell responses to extracellular perturbations. , 2013, , .		1
26	Inhibition of MAPK Hog1 Results in Increased Hsp104 Aggregate Formation Probably through Elevated Arsenite Influx into the Cells, an Approach with Numerous Potential Applications. American Journal of Molecular Biology, 2014, 04, 59-91.	0.3	1
27	An optical tweezers, epi-fluorescence and microfluidic-setup for synchronization studies of glycolytic oscillations in living yeast cells. Proceedings of SPIE, 2016, , .	0.8	0
28	Effect of External Acetaldehyde on Glycolytic Oscillations in Individual Yeast Cells. , 2013, , .		0
29	Combining Optical Tweezers and Microfluidics for Studies of Glycolytic Oscillations in Single Yeast Cells. , 2014, , .		0