

Sungmin Son

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

2,368
citations

567144

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794469

19
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all docs

24
docs citations

24
times ranked

3466
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. <i>Cell</i> , 2021, 184, 323-333.e9.	13.5	613
2	Using buoyant mass to measure the growth of single cells. <i>Nature Methods</i> , 2010, 7, 387-390.	9.0	338
3	Characterizing deformability and surface friction of cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7580-7585.	3.3	297
4	Direct observation of mammalian cell growth and size regulation. <i>Nature Methods</i> , 2012, 9, 910-912.	9.0	197
5	Mechanical Tension Drives Cell Membrane Fusion. <i>Developmental Cell</i> , 2015, 32, 561-573.	3.1	136
6	Accelerated RNA detection using tandem CRISPR nucleases. <i>Nature Chemical Biology</i> , 2021, 17, 982-988.	3.9	135
7	Resonant microchannel volume and mass measurements show that suspended cells swell during mitosis. <i>Journal of Cell Biology</i> , 2015, 211, 757-763.	2.3	123
8	Size-Dependent Segregation Controls Macrophage Phagocytosis of Antibody-Opsonized Targets. <i>Cell</i> , 2018, 174, 131-142.e13.	13.5	120
9	Intracellular Water Exchange for Measuring the Dry Mass, Water Mass and Changes in Chemical Composition of Living Cells. <i>PLoS ONE</i> , 2013, 8, e67590.	1.1	118
10	Cell-cell interfaces as specialized compartments directing cell function. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 750-764.	16.1	60
11	Spectrin is a mechanoresponsive protein shaping fusogenic synapse architecture during myoblast fusion. <i>Nature Cell Biology</i> , 2018, 20, 688-698.	4.6	43
12	Suspended Microchannel Resonators for Ultralow Volume Universal Detection. <i>Analytical Chemistry</i> , 2008, 80, 4757-4760.	3.2	33
13	A viral fusogen hijacks the actin cytoskeleton to drive cell-cell fusion. <i>ELife</i> , 2020, 9, .	2.8	30
14	Mass sensors with mechanical traps for weighing single cells in different fluids. <i>Lab on A Chip</i> , 2011, 11, 4174.	3.1	29
15	Molecular height measurement by cell surface optical profilometry (CSOP). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14209-14219.	3.3	27
16	Claudin-4 reconstituted in unilamellar vesicles is sufficient to form tight interfaces that partition membrane proteins. <i>Journal of Cell Science</i> , 2018, 132, .	1.2	18
17	Cooperative nutrient accumulation sustains growth of mammalian cells. <i>Scientific Reports</i> , 2015, 5, 17401.	1.6	15
18	Evolutionarily related small viral fusogens hijack distinct but modular actin nucleation pathways to drive cell-cell fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11