

Sung Sik Lee

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

7,705
citations

236925

25
h-index

161849

54
g-index

61
all docs

61
docs citations

61
times ranked

17766
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. <i>Molecular Cell</i> , 2014, 53, 471-483.	9.7	274
3	Cytosolic pH is a second messenger for glucose and regulates the PKA pathway through V-ATPase. <i>EMBO Journal</i> , 2010, 29, 2515-2526.	7.8	257
4	Sheathless elasto-inertial particle focusing and continuous separation in a straight rectangular microchannel. <i>Lab on A Chip</i> , 2011, 11, 266-273.	6.0	257
5	Binding of the Atg1/ULK1 kinase to the ubiquitin-like protein Atg8 regulates autophagy. <i>EMBO Journal</i> , 2012, 31, 3691-3703.	7.8	237
6	Whole lifespan microscopic observation of budding yeast aging through a microfluidic dissection platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4916-4920.	7.1	192
7	Frequency modulation of ERK activation dynamics rewires cell fate. <i>Molecular Systems Biology</i> , 2015, 11, 838.	7.2	189
8	Multiwavelength Light-Responsive Au/B-TiO ₂ Janus Micromotors. <i>ACS Nano</i> , 2017, 11, 6146-6154.	14.6	155
9	DNA-based highly tunable particle focuser. <i>Nature Communications</i> , 2013, 4, 2567.	12.8	126
10	Extensional flow-based assessment of red blood cell deformability using hyperbolic converging microchannel. <i>Biomedical Microdevices</i> , 2009, 11, 1021-1027.	2.8	123
11	Deformability-selective particle entrainment and separation in a rectangular microchannel using medium viscoelasticity. <i>Soft Matter</i> , 2012, 8, 5011.	2.7	101
12	Lateral migration and focusing of colloidal particles and DNA molecules under viscoelastic flow. <i>Lab on A Chip</i> , 2012, 12, 2807.	6.0	98
13	Cell Stretching Measurement Utilizing Viscoelastic Particle Focusing. <i>Analytical Chemistry</i> , 2012, 84, 10471-10477.	6.5	97
14	Modular microfluidics enables kinetic insight from time-resolved cryo-EM. <i>Nature Communications</i> , 2020, 11, 3465.	12.8	56
15	A programmable microfluidic static droplet array for droplet generation, transportation, fusion, storage, and retrieval. <i>Lab on A Chip</i> , 2015, 15, 3677-3686.	6.0	53
16	A Cellular System for Spatial Signal Decoding in Chemical Gradients. <i>Developmental Cell</i> , 2015, 35, 458-470.	7.0	50
17	Microfluidic particle separator utilizing sheathless elasto-inertial focusing. <i>Chemical Engineering Science</i> , 2015, 126, 237-243.	3.8	49
18	Protein kinase C and calcineurin cooperatively mediate cell survival under compressive mechanical stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13471-13476.	7.1	46

#	ARTICLE	IF	CITATIONS
19	Calorie restriction does not elicit a robust extension of replicative lifespan in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11727-11731.	7.1	44
20	An integrated image analysis platform to quantify signal transduction in single cells. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1274.	1.3	39
21	Construction and use of a microfluidic dissection platform for long-term imaging of cellular processes in budding yeast. <i>Nature Protocols</i> , 2013, 8, 1019-1027.	12.0	35
22	Microfluidic platform for single cell analysis under dynamic spatial and temporal stimulation. <i>Biosensors and Bioelectronics</i> , 2018, 104, 58-64.	10.1	33
23	Quantitative and dynamic assay of single cell chemotaxis. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 381.	1.3	29
24	Parallel feedback loops control the basal activity of the HOG MAPK signaling cascade. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 412-422.	1.3	29
25	Strain Hardening of Red Blood Cells by Accumulated Cyclic Supraphysiological Stress. <i>Artificial Organs</i> , 2007, 31, 80-86.	1.9	27
26	Gear-shaped micromixer for synthesis of silica particles utilizing inertio-elastic flow instability. <i>Lab on A Chip</i> , 2021, 21, 513-520.	6.0	27
27	Monitoring of chromosome dynamics of single yeast cells in a microfluidic platform with aperture cell traps. <i>Lab on A Chip</i> , 2016, 16, 1358-1365.	6.0	22
28	Ingested nano- and micro-sized polystyrene particles surpass the intestinal barrier and accumulate in the body. <i>NanoImpact</i> , 2022, 25, 100374.	4.5	20
29	Programmable Static Droplet Array for the Analysis of Cell-Cell Communication in a Confined Microenvironment. <i>Analytical Chemistry</i> , 2017, 89, 9722-9729.	6.5	19
30	Microfluidics: an Untapped Resource in Viral Diagnostics and Viral Cell Biology. <i>Current Clinical Microbiology Reports</i> , 2018, 5, 245-251.	3.4	19
31	Quantitative analysis of yeast MAPK signaling networks and crosstalk using a microfluidic device. <i>Lab on A Chip</i> , 2020, 20, 2646-2655.	6.0	19
32	Crosstalk and spatiotemporal regulation between stress-induced MAP kinase pathways and pheromone signaling in budding yeast. <i>Cell Cycle</i> , 2020, 19, 1707-1715.	2.6	17
33	Viscoelastic particle focusing in human biofluids. <i>Electrophoresis</i> , 2021, 42, 2238-2245.	2.4	15
34	Mre11-Rad50 oligomerization promotes DNA double-strand break repair. <i>Nature Communications</i> , 2022, 13, 2374.	12.8	15
35	Real-time investigation of cytochrome c release profiles in living neuronal cells undergoing amyloid beta oligomer-induced apoptosis. <i>Nanoscale</i> , 2015, 7, 10340-10343.	5.6	14
36	Mechanical stress impairs pheromone signaling via Pkc1-mediated regulation of the MAPK scaffold Ste5. <i>Journal of Cell Biology</i> , 2019, 218, 3117-3133.	5.2	13

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37	A Toolbox for Organelle Mechanobiology Research—Current Needs and Challenges. <i>Micromachines</i> , 2019, 10, 538.	2.9	11
38	DNA circles promote yeast ageing in part through stimulating the reorganization of nuclear pore complexes. <i>ELife</i> , 2022, 11, .	6.0	11
39	Normal stress difference—driven particle focusing in nanoparticle colloidal dispersion. <i>Science Advances</i> , 2019, 5, eaav4819.	10.3	10
40	Noninvasive label-free nanoplasmonic optical imaging for real-time monitoring of in vitro amyloid fibrogenesis. <i>Nanoscale</i> , 2014, 6, 3561-3565.	5.6	9
41	Integrated Platform for Monitoring Single-cell MAPK Kinetics in Computer-controlled Temporal Stimulations. <i>Scientific Reports</i> , 2018, 8, 11126.	3.3	9
42	Reactivation of catalysts for methanol-to-hydrocarbons conversion with hydrogen. <i>Journal of Catalysis</i> , 2022, 407, 54-64.	6.2	9
43	Electron Diffraction Enables the Mapping of Coke in ZSM-5 Micropores Formed during Methanol-to-Hydrocarbons Conversion. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	9
44	Aluminum Redistribution in ZSM-5 Zeolite upon Interaction with Gaseous Halogens and Hydrogen Halides and Implications in Catalysis. <i>Journal of Physical Chemistry C</i> , 2020, 124, 722-733.	3.1	8
45	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. <i>BioTechniques</i> , 2020, 69, 46-51.	1.8	8
46	Medium viscoelastic effect on particle segregation in concentrated suspensions under rectangular microchannel flows. <i>Korea Australia Rheology Journal</i> , 2011, 23, 247-254.	1.7	7
47	Continuous High-resolution Microscopic Observation of Replicative Aging in Budding Yeast. <i>Journal of Visualized Experiments</i> , 2013, , e50143.	0.3	7
48	A rapid and effective vignetting correction for quantitative microscopy. <i>RSC Advances</i> , 2014, 4, 52727-52733.	3.6	6
49	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. <i>Molecular Cell</i> , 2014, 53, 515.	9.7	4
50	Microfluidic Generation of Amino-Functionalized Hydrogel Microbeads Capable of On-Bead Bioassay. <i>Micromachines</i> , 2019, 10, 527.	2.9	4
51	Effect of local kinematic history on the dynamic self-assembly of droplets in micro-expansion channels. <i>Korea Australia Rheology Journal</i> , 2011, 23, 119-126.	1.7	3
52	Editorial for the Special Issue on Microfluidics for Soft Matter and Mechanobiology. <i>Micromachines</i> , 2020, 11, 372.	2.9	3
53	Increased Intron Retention Propagates Aging from the Nucleus to the Cytoplasm. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
54	Electron Diffraction Enables the Mapping of Coke in ZSM-5 Micropores Formed during Methanol-to-Hydrocarbons Conversion. <i>Angewandte Chemie</i> , 0, , .	2.0	0