

Shaoying Lu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,014
citations

394421

19
h-index

501196

28
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32
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32
docs citations

32
times ranked

1751
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. <i>Nature Communications</i> , 2021, 12, 5031.	12.8	10
2	Tracking the Dynamic Histone Methylation of H3K27 in Live Cancer Cells. <i>ACS Sensors</i> , 2021, 6, 4369-4378.	7.8	5
3	Engineering light-controllable CAR T cells for cancer immunotherapy. <i>Science Advances</i> , 2020, 6, eaay9209.	10.3	97
4	Optogenetic Control for Investigating Subcellular Localization of Fyn Kinase Activity in Single Live Cells. <i>Journal of Molecular Biology</i> , 2020, 432, 1901-1909.	4.2	4
5	Biophysical basis underlying dynamic Lck activation visualized by ZapLck FRET biosensor. <i>Science Advances</i> , 2019, 5, eaau2001.	10.3	25
6	Fluocell for Ratiometric and High-Throughput Live-Cell Image Visualization and Quantitation. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	4
7	Sensitive FRET Biosensor Reveals Fyn Kinase Regulation by Submembrane Localization. <i>ACS Sensors</i> , 2019, 4, 76-86.	7.8	26
8	Directed Evolution to Engineer Monobody for FRET Biosensor Assembly and Imaging at Live-Cell Surface. <i>Cell Chemical Biology</i> , 2018, 25, 370-379.e4.	5.2	23
9	Coordinated histone modifications and chromatin reorganization in a single cell revealed by FRET biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11681-E11690.	7.1	48
10	Engineered proteins with sensing and activating modules for automated reprogramming of cellular functions. <i>Nature Communications</i> , 2017, 8, 477.	12.8	33
11	In-situ coupling between kinase activities and protein dynamics within single focal adhesions. <i>Scientific Reports</i> , 2016, 6, 29377.	3.3	22
12	Subcellular and Dynamic Coordination between Src Activity and Cell Protrusion in Microenvironment. <i>Scientific Reports</i> , 2015, 5, 12963.	3.3	4
13	Activatable and Cell-Penetrable Multiplex FRET Nanosensor for Profiling MT1-MMP Activity in Single Cancer Cells. <i>Nano Letters</i> , 2015, 15, 5025-5032.	9.1	50
14	Focal adhesion kinase leads paxillin in the assembly of nascent focal adhesions in lamellipodial protrusions of migrating endothelial cells. <i>FASEB Journal</i> , 2015, 29, 797.5.	0.5	0
15	Single-Cell Imaging of Mechanotransduction in Endothelial Cells. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 126, 25-51.	1.7	9
16	3D Traction Stresses Activate Protease-Dependent Invasion of Cancer Cells. <i>Biophysical Journal</i> , 2014, 107, 2528-2537.	0.5	77
17	The role of mechanical tension on lipid raft dependent PDGF-induced TRPC6 activation. <i>Biomaterials</i> , 2014, 35, 2868-2877.	11.4	24
18	The regulation of β^2 -adrenergic receptor-mediated PKA activation by substrate stiffness via microtubule dynamics in human MSCs. <i>Biomaterials</i> , 2014, 35, 8348-8356.	11.4	13

#	ARTICLE	IF	CITATIONS
19	RhoA and Membrane Fluidity Mediates the Spatially Polarized Src/FAK Activation in Response to Shear Stress. <i>Scientific Reports</i> , 2014, 4, 7008.	3.3	38
20	FAK and paxillin dynamics at focal adhesions in the protrusions of migrating cells. <i>Scientific Reports</i> , 2014, 4, 6024.	3.3	152
21	Decipher the dynamic coordination between enzymatic activity and structural modulation at focal adhesions in living cells. <i>Scientific Reports</i> , 2014, 4, 5756.	3.3	14
22	Prolonged Mechanical Stretch Initiates Intracellular Calcium Oscillations in Human Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2014, 9, e109378.	2.5	25
23	Quantitative FRET Imaging to Visualize the Invasiveness of Live Breast Cancer Cells. <i>PLoS ONE</i> , 2013, 8, e58569.	2.5	31
24	Dynamics of focal adhesion kinase and paxillin in lamellipodial protrusion of migrating endothelial cells. <i>FASEB Journal</i> , 2012, 26, 1129.13.	0.5	0
25	Detection of focal adhesion kinase activation at membrane microdomains by fluorescence resonance energy transfer. <i>Nature Communications</i> , 2011, 2, 406.	12.8	107
26	Computational Analysis of the Spatiotemporal Coordination of Polarized PI3K and Rac1 Activities in Micro-Patterned Live Cells. <i>PLoS ONE</i> , 2011, 6, e21293.	2.5	22
27	Bone Physiology, Biomaterial and the Effect of Mechanical/Physical Microenvironment on Mesenchymal Stem Cell Osteogenesis. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 579-590.	2.1	22
28	Fluorescence Resonance Energy Transfer Biosensors for Cancer Detection and Evaluation of Drug Efficacy. <i>Clinical Cancer Research</i> , 2010, 16, 3822-3824.	7.0	46
29	Multiscale modeling in rodent ventricular myocytes. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009, 28, 46-57.	0.8	18
30	The Spatiotemporal Pattern of Src Activation at Lipid Rafts Revealed by Diffusion-Corrected FRET Imaging. <i>PLoS Computational Biology</i> , 2008, 4, e1000127.	3.2	64