

# 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  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1751  
citing authors

#	ARTICLE	IF	CITATIONS
1	FAK and paxillin dynamics at focal adhesions in the protrusions of migrating cells. <i>Scientific Reports</i> , 2014, 4, 6024.	3.3	152
2	Detection of focal adhesion kinase activation at membrane microdomains by fluorescence resonance energy transfer. <i>Nature Communications</i> , 2011, 2, 406.	12.8	107
3	Engineering light-controllable CAR T cells for cancer immunotherapy. <i>Science Advances</i> , 2020, 6, eaay9209.	10.3	97
4	3D Traction Stresses Activate Protease-Dependent Invasion of Cancer Cells. <i>Biophysical Journal</i> , 2014, 107, 2528-2537.	0.5	77
5	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
6	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
7	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
8	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
9	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
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	Quantitative FRET Imaging to Visualize the Invasiveness of Live Breast Cancer Cells. <i>PLoS ONE</i> , 2013, 8, e58569.	2.5	31
12	Sensitive FRET Biosensor Reveals Fyn Kinase Regulation by Submembrane Localization. <i>ACS Sensors</i> , 2019, 4, 76-86.	7.8	26
13	Biophysical basis underlying dynamic Lck activation visualized by ZapLck FRET biosensor. <i>Science Advances</i> , 2019, 5, eaau2001.	10.3	25
14	Prolonged Mechanical Stretch Initiates Intracellular Calcium Oscillations in Human Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2014, 9, e109378.	2.5	25
15	The role of mechanical tension on lipid raft dependent PDGF-induced TRPC6 activation. <i>Biomaterials</i> , 2014, 35, 2868-2877.	11.4	24
16	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
17	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
18	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

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19	In-situ coupling between kinase activities and protein dynamics within single focal adhesions. Scientific Reports, 2016, 6, 29377.	3.3	22
20	Multiscale modeling in rodent ventricular myocytes. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 46-57.	0.8	18
21	Decipher the dynamic coordination between enzymatic activity and structural modulation at focal adhesions in living cells. Scientific Reports, 2014, 4, 5756.	3.3	14
22	The regulation of $\beta$ -adrenergic receptor-mediated PKA activation by substrate stiffness via microtubule dynamics in human MSCs. Biomaterials, 2014, 35, 8348-8356.	11.4	13
23	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. Nature Communications, 2021, 12, 5031.	12.8	10
24	Single-Cell Imaging of Mechanotransduction in Endothelial Cells. Progress in Molecular Biology and Translational Science, 2014, 126, 25-51.	1.7	9
25	Tracking the Dynamic Histone Methylation of H3K27 in Live Cancer Cells. ACS Sensors, 2021, 6, 4369-4378.	7.8	5
26	Subcellular and Dynamic Coordination between Src Activity and Cell Protrusion in Microenvironment. Scientific Reports, 2015, 5, 12963.	3.3	4
27	Fluocell for Ratiometric and High-Throughput Live-Cell Image Visualization and Quantitation. Frontiers in Physics, 2019, 7, .	2.1	4
28	Optogenetic Control for Investigating Subcellular Localization of Fyn Kinase Activity in Single Live Cells. Journal of Molecular Biology, 2020, 432, 1901-1909.	4.2	4
29	Dynamics of focal adhesion kinase and paxillin in lamellipodial protrusion of migrating endothelial cells. FASEB Journal, 2012, 26, 1129.13.	0.5	0
30	Focal adhesion kinase leads paxillin in the assembly of nascent focal adhesions in lamellipodial protrusions of migrating endothelial cells. FASEB Journal, 2015, 29, 797.5.	0.5	0