

# Yang Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4258239/publications.pdf>

Version: 2024-02-01

22  
papers

1,597  
citations

516710

16  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the specificity of nucleic acid detection with endonuclease-actuated degradation. <i>Communications Biology</i> , 2022, 5, 290.	4.4	3
2	In vitro Cleavage and Electrophoretic Mobility Shift Assays for Very Fast CRISPR. <i>Bio-protocol</i> , 2021, 11, e4138.	0.4	0
3	Cas9 deactivation with photocleavable guide RNAs. <i>Molecular Cell</i> , 2021, 81, 1553-1565.e8.	9.7	30
4	CRISPR deactivation in mammalian cells using photocleavable guide RNAs. <i>STAR Protocols</i> , 2021, 2, 100909.	1.2	0
5	Forces during cellular uptake of viruses and nanoparticles at the ventral side. <i>Nature Communications</i> , 2020, 11, 32.	12.8	35
6	Very fast CRISPR on demand. <i>Science</i> , 2020, 368, 1265-1269.	12.6	129
7	Fluorescence Imaging Methods to Investigate Translation in Single Cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019, 11, a032722.	5.5	32
8	Light-Responsive Polymer Particles as Force Clamps for the Mechanical Unfolding of Target Molecules. <i>Nano Letters</i> , 2018, 18, 2630-2636.	9.1	16
9	Molecular Tension Probes to Investigate the Mechanopharmacology of Single Cells: A Step toward Personalized Mechanomedicine. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800069.	7.6	17
10	Molecular Tension Probes for Imaging Forces at the Cell Surface. <i>Accounts of Chemical Research</i> , 2017, 50, 2915-2924.	15.6	127
11	DNA-based nanoparticle tension sensors reveal that T-cell receptors transmit defined pN forces to their antigens for enhanced fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5610-5615.	7.1	256
12	Mechanically Induced Catalytic Amplification Reaction for Readout of Receptor-Mediated Cellular Forces. <i>Angewandte Chemie</i> , 2016, 128, 5578-5582.	2.0	8
13	Ratiometric Tension Probes for Mapping Receptor Forces and Clustering at Intermembrane Junctions. <i>Nano Letters</i> , 2016, 16, 4552-4559.	9.1	65
14	Mechanically Induced Catalytic Amplification Reaction for Readout of Receptor-Mediated Cellular Forces. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5488-5492.	13.8	36
15	Nanoscale optomechanical actuators for controlling mechanotransduction in living cells. <i>Nature Methods</i> , 2016, 13, 143-146.	19.0	113
16	Titin-Based Nanoparticle Tension Sensors Map High-Magnitude Integrin Forces within Focal Adhesions. <i>Nano Letters</i> , 2016, 16, 341-348.	9.1	79
17	High-speed DNA-based rolling motors powered by RNase H. <i>Nature Nanotechnology</i> , 2016, 11, 184-190.	31.5	178
18	Structurally Defined Nanoscale Sheets from Self-Assembly of Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2014, 136, 4300-4308.	13.7	126

#	ARTICLE	IF	CITATIONS
19	Nanoparticle Tension Probes Patterned at the Nanoscale: Impact of Integrin Clustering on Force Transmission. <i>Nano Letters</i> , 2014, 14, 5539-5546.	9.1	124
20	Quantum Dots Encapsulated within Phospholipid Membranes: Phase-Dependent Structure, Photostability, and Site-Selective Functionalization. <i>Journal of the American Chemical Society</i> , 2014, 136, 1992-1999.	13.7	59
21	Tension Sensing Nanoparticles for Mechano-Imaging at the Living/Nonliving Interface. <i>Journal of the American Chemical Society</i> , 2013, 135, 5320-5323.	13.7	118
22	Real Time Observation of Chemical Reactions of Individual Metal Nanoparticles with High-Throughput Single Molecule Spectral Microscopy. <i>Analytical Chemistry</i> , 2010, 82, 8744-8749.	6.5	46