

# Khalid Salaita

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

3,911  
citations

32  
h-index

62  
g-index

98  
ext. papers

4,720  
ext. citations

12.3  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
89	Applications of dip-pen nanolithography. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 145-55	28.7	721
88	Restriction of receptor movement alters cellular response: physical force sensing by EphA2. <i>Science</i> , <b>2010</b> , 327, 1380-5	33.3	271
87	Massively parallel dip-pen nanolithography with 55 000-pen two-dimensional arrays. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7220-3	16.4	256
86	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> , <b>2016</b> , 113, 5610-5	11.5	177
85	DNA-based digital tension probes reveal integrin forces during early cell adhesion. <i>Nature Communications</i> , <b>2014</b> , 5, 5167	17.4	169
84	High-speed DNA-based rolling motors powered by RNase H. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 184-90	28.7	124
83	Sub-100 nm, centimeter-scale, parallel dip-pen nanolithography. <i>Small</i> , <b>2005</b> , 1, 940-5	11	109
82	Structurally defined nanoscale sheets from self-assembly of collagen-mimetic peptides. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4300-8	16.4	108
81	Nanoparticle tension probes patterned at the nanoscale: impact of integrin clustering on force transmission. <i>Nano Letters</i> , <b>2014</b> , 14, 5539-46	11.5	101
80	Tension sensing nanoparticles for mechano-imaging at the living/nonliving interface. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5320-3	16.4	90
79	Nanoscale optomechanical actuators for controlling mechanotransduction in living cells. <i>Nature Methods</i> , <b>2016</b> , 13, 143-6	21.6	89
78	Molecular Tension Probes for Imaging Forces at the Cell Surface. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 2915-2924	24.3	84
77	Using patterned supported lipid membranes to investigate the role of receptor organization in intercellular signaling. <i>Nature Protocols</i> , <b>2011</b> , 6, 523-39	18.8	78
76	Catalytic deoxyribozyme-modified nanoparticles for RNAi-independent gene regulation. <i>ACS Nano</i> , <b>2012</b> , 6, 9150-7	16.7	73
75	Platelet integrins exhibit anisotropic mechanosensing and harness piconewton forces to mediate platelet aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 325-330	11.5	72
74	L-Ala-ED-Glu-meso-diaminopimelic acid (DAP) interacts directly with leucine-rich region domain of nucleotide-binding oligomerization domain 1, increasing phosphorylation activity of receptor-interacting serine/threonine-protein kinase 2 and its interaction with nucleotide-binding oligomerization domain 1. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 31003-31013	5.4	68
73	Mapping the 3D orientation of piconewton integrin traction forces. <i>Nature Methods</i> , <b>2018</b> , 15, 115-118	21.6	65

72	A TCR mechanotransduction signaling loop induces negative selection in the thymus. <i>Nature Immunology</i> , <b>2018</b> , 19, 1379-1390	19.1	64
71	Knockdown of TNF- $\beta$ by DNAzyme gold nanoparticles as an anti-inflammatory therapy for myocardial infarction. <i>Biomaterials</i> , <b>2016</b> , 83, 12-22	15.6	62
70	Programmable Multivalent DNA-Origami Tension Probes for Reporting Cellular Traction Forces. <i>Nano Letters</i> , <b>2018</b> , 18, 4803-4811	11.5	62
69	Titin-Based Nanoparticle Tension Sensors Map High-Magnitude Integrin Forces within Focal Adhesions. <i>Nano Letters</i> , <b>2016</b> , 16, 341-8	11.5	56
68	Supported lipid bilayer platforms to probe cell mechanobiology. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 1465-1482	3.8	53
67	Spontaneous "phase separation" of patterned binary alkanethiol mixtures. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11283-7	16.4	51
66	Massively Parallel Dip-Pen Nanolithography with 55 000-Pen Two-Dimensional Arrays. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7378-7381	3.6	49
65	Ratiometric Tension Probes for Mapping Receptor Forces and Clustering at Intermembrane Junctions. <i>Nano Letters</i> , <b>2016</b> , 16, 4552-9	11.5	47
64	Chameleon-Inspired Strain-Accommodating Smart Skin. <i>ACS Nano</i> , <b>2019</b> , 13, 9918-9926	16.7	46
63	DNA probes that store mechanical information reveal transient piconewton forces applied by T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16949-16954	11.5	46
62	Emerging uses of DNA mechanical devices. <i>Science</i> , <b>2019</b> , 365, 1080-1081	33.3	45
61	DNA Nanotechnology as an Emerging Tool to Study Mechanotransduction in Living Systems. <i>Small</i> , <b>2019</b> , 15, e1900961	11	44
60	The modulation of cardiac progenitor cell function by hydrogel-dependent Notch1 activation. <i>Biomaterials</i> , <b>2014</b> , 35, 8103-12	15.6	44
59	DNA mechanotechnology reveals that integrin receptors apply pN forces in podosomes on fluid substrates. <i>Nature Communications</i> , <b>2019</b> , 10, 4507	17.4	40
58	Live-cell super-resolved PAINT imaging of piconewton cellular traction forces. <i>Nature Methods</i> , <b>2020</b> , 17, 1018-1024	21.6	35
57	A General Approach for Generating Fluorescent Probes to Visualize Piconewton Forces at the Cell Surface. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2901-4	16.4	32
56	Membrane tethered delta activates notch and reveals a role for spatio-mechanical regulation of the signaling pathway. <i>Biophysical Journal</i> , <b>2013</b> , 105, 2655-65	2.9	31
55	Tunable DNA Origami Motors Translocate Ballistically Over $\mu$ m Distances at nm/s Speeds. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9514-9521	16.4	29

54	Mechanically Induced Catalytic Amplification Reaction for Readout of Receptor-Mediated Cellular Forces. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5488-92	16.4	29
53	Electrochemical Whittling of Organic Nanostructures. <i>Nano Letters</i> , <b>2002</b> , 2, 1389-1392	11.5	29
52	Super-Resolution Fluorescence Imaging Reveals That Serine Incorporator Protein 5 Inhibits Human Immunodeficiency Virus Fusion by Disrupting Envelope Glycoprotein Clusters. <i>ACS Nano</i> , <b>2020</b> , 14, 10929-10943	16.7	26
51	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13507-13512	16.4	22
50	Highly Polyvalent DNA Motors Generate 100+ pN of Force via Autochemophoresis. <i>Nano Letters</i> , <b>2019</b> , 19, 6977-6986	11.5	21
49	Seeded Heteroepitaxial Growth of Crystallizable Collagen Triple Helices: Engineering Multifunctional Two-Dimensional Core-Shell Nanostructures. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20107-20117	16.4	19
48	Macrophages exposed to HIV viral protein disrupt lung epithelial cell integrity and mitochondrial bioenergetics via exosomal microRNA shuttling. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 580	9.8	17
47	Real-time fluorescence imaging with 20 nm axial resolution. <i>Nature Communications</i> , <b>2015</b> , 6, 8307	17.4	16
46	Localized Nanoscale Heating Leads to Ultrafast Hydrogel Volume-Phase Transition. <i>ACS Nano</i> , <b>2019</b> , 13, 515-525	16.7	16
45	Forces during cellular uptake of viruses and nanoparticles at the ventral side. <i>Nature Communications</i> , <b>2020</b> , 11, 32	17.4	15
44	Mechanical Proofreading: A General Mechanism to Enhance the Fidelity of Information Transfer Between Cells. <i>Frontiers in Physics</i> , <b>2019</b> , 7,	3.9	14
43	EGFR activation attenuates the mechanical threshold for integrin tension and focal adhesion formation. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	13
42	Shape-Shifting Peptide Nanomaterials: Surface Asymmetry Enables pH-Dependent Formation and Interconversion of Collagen Tubes and Sheets. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19956-19968	16.4	11
41	Mechanical Stimulation of Adhesion Receptors Using Light-Responsive Nanoparticle Actuators Enhances Myogenesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35903-35917	9.5	11
40	Light-Responsive Polymer Particles as Force Clamps for the Mechanical Unfolding of Target Molecules. <i>Nano Letters</i> , <b>2018</b> , 18, 2630-2636	11.5	11
39	Molecular Tension Probes to Investigate the Mechanopharmacology of Single Cells: A Step toward Personalized Mechanomedicine. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800069	10.1	11
38	Roles of the cytoskeleton in regulating EphA2 signals. <i>Communicative and Integrative Biology</i> , <b>2010</b> , 3, 454-7	1.7	11
37	Site-Selective RNA Splicing Nanozyme: DNAzyme and RtcB Conjugates on a Gold Nanoparticle. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 215-224	4.9	10

36	Programmable Mechanically Active Hydrogel-Based Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006600	24	9
35	Mechanically Induced Catalytic Amplification Reaction for Readout of Receptor-Mediated Cellular Forces. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5578-5582	3.6	8
34	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13641-13646	3.6	8
33	The effects of organic vapor on alkanethiol deposition via dip-pen nanolithography. <i>Scanning</i> , <b>2010</b> , 32, 9-14	1.6	8
32	DNA Gold Nanoparticle Motors Demonstrate Processive Motion with Bursts of Speed Up to 50 nm Per Second. <i>ACS Nano</i> , <b>2021</b> , 15, 8427-8438	16.7	8
31	Engineering DNA-Functionalized Nanostructures to Bind Nucleic Acid Targets Heteromultivalently with Enhanced Avidity. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9653-9660	16.4	5
30	Smart Nucleic Acids as Future Therapeutics. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 1289-1307	15.1	5
29	The Molecular Boat: A Hands-On Experiment To Demonstrate the Forces Applied to Self-Assembled Monolayers at Interfaces. <i>Journal of Chemical Education</i> , <b>2012</b> , 89, 1547-1550	2.4	4
28	Variable incidence angle linear dichroism (VALiD): a technique for unique 3D orientation measurement of fluorescent ensembles. <i>Optics Express</i> , <b>2020</b> , 28, 10039-10061	3.3	4
27	A brighter force gauge for cells. <i>ELife</i> , <b>2018</b> , 7,	8.9	4
26	Conditional Deoxyribozyme-Nanoparticle Conjugates for miRNA-Triggered Gene Regulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37851-37861	9.5	4
25	Spectroscopic Analysis of a Library of DNA Tension Probes for Mapping Cellular Forces at Fluid Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2145-2164	9.5	4
24	Optical Control of Cytokine Signaling via Bioinspired, Polymer-Induced Latency. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2635-2644	6.9	3
23	ST6Gal-I-mediated sialylation of the epidermal growth factor receptor modulates cell mechanics and enhances invasion.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101726	5.4	3
22	Multivalent molecular tension probes as anisotropic mechanosensors: concept and simulation. <i>Physical Biology</i> , <b>2021</b> , 18, 034001	3	3
21	Mechanically active integrins target lytic secretion at the immune synapse to facilitate cellular cytotoxicity. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	3
20	Tunable DNA Origami Motors Translocate Ballistically Over $\mu\text{m}$ Distances at nm/s Speeds. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9601-9608	3.6	2
19	Cover Picture: Massively Parallel DipPen Nanolithography with 55 000-Pen Two-Dimensional Arrays (Angew. Chem. Int. Ed. 43/2006). <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7099-7099	16.4	2

18	Applications of dip-pen nanolithography <b>2009</b> , 297-307		2
17	DNA-Based Microparticle Tension Sensors (MIS) for Measuring Cell Mechanics in Non-planar Geometries and for High-Throughput Quantification. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18044-18050	16.4	2
16	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19974-19981	16.4	2
15	Bionanoarrays233-259		1
14	Titelbild: Massively Parallel DipPen Nanolithography with 55 000-Pen Two-Dimensional Arrays (Angew. Chem. 43/2006). <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7257-7257	3.6	1
13	Supramolecular DNA Photonic Hydrogels for On-Demand Control of Coloration with High Spatial and Temporal Resolution. <i>Nano Letters</i> , <b>2021</b> , 21, 9958-9965	11.5	1
12	Conditional Antisense Oligonucleotides Triggered by miRNA. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 2255-2267	4.9	1
11	DNA Tension Probes to Map the Transient Piconewton Receptor Forces by Immune Cells. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	1
10	An Outside-In Switch in Integrin Signaling Caused by Chemical and Mechanical Signals in Reactive Astrocytes. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 712627	5.7	1
9	Turn-key mapping of cell receptor force orientation and magnitude using a commercial structured illumination microscope. <i>Nature Communications</i> , <b>2021</b> , 12, 4693	17.4	1
8	The magnitude of LFA-1/ICAM-1 forces fine-tune TCR-triggered T cell activation.. <i>Science Advances</i> , <b>2022</b> , 8, eabg4485	14.3	1
7	Carfilzomib Treatment Causes Molecular and Functional Alterations of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Journal of the American Heart Association</i> , <b>2021</b> , e022247	6	1
6	Massively Parallelized Molecular Force Manipulation with On-Demand Thermal and Optical Control. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19466-19473	16.4	0
5	DNA-Based Microparticle Tension Sensors (MIS) for Measuring Cell Mechanics in Non-planar Geometries and for High-Throughput Quantification. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18192-18198	3.6	0
4	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20127-20134	3.6	0
3	Imaging vesicle formation dynamics supports the flexible model of clathrin-mediated endocytosis.. <i>Nature Communications</i> , <b>2022</b> , 13, 1732	17.4	0
2	Location, Location, Location: EphB4:Ephrin-B2 Signaling Depends on Its Spatial Arrangement. <i>Biophysical Journal</i> , <b>2018</b> , 115, 754-756	2.9	
1	Fluorescence Polarization Microscopy Enables Spatial Mapping of the 3D Orientation of Piconewton Integrin Traction Forces. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1244-1245	0.5	

