

# Ke Xu

## List of Publications by Year in Descending Order

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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.

92  
papers

5,832  
citations

35  
h-index

76  
g-index

121  
ext. papers

7,235  
ext. citations

15  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
92	Determinants of synapse diversity revealed by super-resolution quantal transmission and active zone imaging.. <i>Nature Communications</i> , <b>2022</b> , 13, 229	17.4	2
91	Displacement Statistics of Unhindered Single Molecules Show no Enhanced Diffusion in Enzymatic Reactions.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
90	Load adaptation by endocytic actin networks.. <i>Molecular Biology of the Cell</i> , <b>2022</b> , mbcE21110589	3.5	1
89	The endoplasmic reticulum adopts two distinct tubule forms.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2117559119	11.5	0
88	A new type of ERGIC-ERES membrane contact mediated by TMED9 and SEC12 is required for autophagosome biogenesis. <i>Cell Research</i> , <b>2021</b> ,	24.7	4
87	Excitation spectral microscopy for highly multiplexed fluorescence imaging and quantitative biosensing. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 97	16.7	12
86	Genome-wide CRISPRi/a screens in human neurons link lysosomal failure to ferroptosis. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 1020-1034	25.5	25
85	Vertebrate cells differentially interpret ciliary and extraciliary cAMP. <i>Cell</i> , <b>2021</b> , 184, 2911-2926.e18	56.2	18
84	Single Molecules Are Your Quanta: A Bottom-Up Approach toward Multidimensional Super-resolution Microscopy. <i>ACS Nano</i> , <b>2021</b> ,	16.7	3
83	Facile, Electrochemical Chlorination of Graphene from an Aqueous NaCl Solution. <i>Nano Letters</i> , <b>2021</b> , 21, 1150-1155	11.5	4
82	A mode of cell adhesion and migration facilitated by CD44-dependent microtentacles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11432-11443	11.5	19
81	Direct Correlation of Single-Particle Motion to Amorphous Microstructural Components of Semicrystalline Poly(ethylene oxide) Electrolytic Films. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4849-4858	6.4	3
80	Single-molecule displacement mapping unveils nanoscale heterogeneities in intracellular diffusivity. <i>Nature Methods</i> , <b>2020</b> , 17, 524-530	21.6	37
79	Mitochondrial stress is relayed to the cytosol by an OMA1-DELE1-HRI pathway. <i>Nature</i> , <b>2020</b> , 579, 427-432	32.4	122
78	Azidated Graphene: Direct Azidation from Monolayers, Click Chemistry, and Bulk Production from Graphite. <i>Nano Letters</i> , <b>2020</b> , 20, 534-539	11.5	8
77	Probing Nanoscale Diffusional Heterogeneities in Cellular Membranes through Multidimensional Single-Molecule and Super-Resolution Microscopy. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18866-18873	16.4	10
76	A Weak Link with Actin Organizes Tight Junctions to Control Epithelial Permeability. <i>Developmental Cell</i> , <b>2020</b> , 54, 792-804.e7	10.2	14

75	Graphene-Enabled, Spatially Controlled Electroporation of Adherent Cells for Live-Cell Super-resolution Microscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 5609-5617	16.7	5
74	Pathogenic Tau Impairs Axon Initial Segment Plasticity and Excitability Homeostasis. <i>Neuron</i> , <b>2019</b> , 104, 458-470.e5	13.9	49
73	Optical Microscopy Unveils Rapid, Reversible Electrochemical Oxidation and Reduction of Graphene. <i>Nano Letters</i> , <b>2019</b> , 19, 983-989	11.5	16
72	Functional super-resolution microscopy of the cell. <i>Current Opinion in Chemical Biology</i> , <b>2019</b> , 51, 92-97	9.7	7
71	Information-rich localization microscopy through machine learning. <i>Nature Communications</i> , <b>2019</b> , 10, 1996	17.4	14
70	Metabolic Reprogramming in Astrocytes Distinguishes Region-Specific Neuronal Susceptibility in Huntington Mice. <i>Cell Metabolism</i> , <b>2019</b> , 29, 1258-1273.e11	24.6	58
69	Oblique-plane single-molecule localization microscopy for tissues and small intact animals. <i>Nature Methods</i> , <b>2019</b> , 16, 853-857	21.6	39
68	Switchable Solvatochromic Probes for Live-Cell Super-resolution Imaging of Plasma Membrane Organization. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14920-14924	16.4	61
67	Switchable Solvatochromic Probes for Live-Cell Super-resolution Imaging of Plasma Membrane Organization. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15062-15066	3.6	14
66	Light-Assisted Diazonium Functionalization of Graphene and Spatial Heterogeneities in Reactivity. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4788-4793	6.4	8
65	Hypotonic Stress Induces Fast, Reversible Degradation of the Vimentin Cytoskeleton via Intracellular Calcium Release. <i>Advanced Science</i> , <b>2019</b> , 6, 1900865	13.6	10
64	Super-resolution writing. <i>Nature Chemistry</i> , <b>2019</b> , 11, 969-971	17.6	
63	Super-Resolution Microscopy: Hypotonic Stress Induces Fast, Reversible Degradation of the Vimentin Cytoskeleton via Intracellular Calcium Release (Adv. Sci. 18/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970112	13.6	78
62	Deterministic Assembly of Arrays of Lithographically Defined WS <sub>2</sub> and MoS <sub>2</sub> Monolayer Features Directly From Multilayer Sources Into Van Der Waals Heterostructures. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2019</b> , 7,	1.3	7
61	Direct comparison of clathrin-mediated endocytosis in budding and fission yeast reveals conserved and evolvable features. <i>ELife</i> , <b>2019</b> , 8,	8.9	9
60	Rbfox Splicing Factors Promote Neuronal Maturation and Axon Initial Segment Assembly. <i>Neuron</i> , <b>2018</b> , 97, 853-868.e6	13.9	45
59	Super-Resolution Microscopy Reveals the Native Ultrastructure of the Erythrocyte Cytoskeleton. <i>Cell Reports</i> , <b>2018</b> , 22, 1151-1158	10.6	59
58	Spectrally Resolved and Functional Super-resolution Microscopy via Ultrahigh-Throughput Single-Molecule Spectroscopy. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 697-705	24.3	39

57	Effect of Cell Sex on Uptake of Nanoparticles: The Overlooked Factor at the Nanobio Interface. <i>ACS Nano</i> , <b>2018</b> , 12, 2253-2266	16.7	65
56	Super-Resolution Imaging of Clickable Graphene Nanoribbons Decorated with Fluorescent Dyes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9574-9580	16.4	22
55	Optical characterization of surface adlayers and their compositional demixing at the nanoscale. <i>Nature Communications</i> , <b>2018</b> , 9, 1435	17.4	7
54	The Spectrin-Actin-Based Periodic Cytoskeleton as a Conserved Nanoscale Scaffold and Ruler of the Neural Stem Cell Lineage. <i>Cell Reports</i> , <b>2018</b> , 24, 1512-1522	10.6	22
53	TANGO1 and SEC12 are copackaged with procollagen I to facilitate the generation of large COPII carriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E12255-E12264	11.5	34
52	Asymmetrically Positioned Flagellar Control Units Regulate Human Sperm Rotation. <i>Cell Reports</i> , <b>2018</b> , 24, 2606-2613	10.6	25
51	COPII-coated membranes function as transport carriers of intracellular procollagen I. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 1745-1759	7.3	69
50	Cytoskeletal organization in microtentacles. <i>Experimental Cell Research</i> , <b>2017</b> , 357, 291-298	4.2	13
49	Superresolution microscopy reveals the three-dimensional organization of meiotic chromosome axes in intact tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4734-E4743	11.5	49
48	Spatially Resolved in Situ Reaction Dynamics of Graphene via Optical Microscopy. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5836-5841	16.4	11
47	Correlative Super-Resolution Microscopy: New Dimensions and New Opportunities. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7428-7456	68.1	105
46	Preventing Thin Film Dewetting via Graphene Capping. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701536	24	20
45	Development of a Virtual Cell Model to Predict Cell Response to Substrate Topography. <i>ACS Nano</i> , <b>2017</b> , 11, 9084-9092	16.7	26
44	Remodeling of ER-exit sites initiates a membrane supply pathway for autophagosome biogenesis. <i>EMBO Reports</i> , <b>2017</b> , 18, 1586-1603	6.5	98
43	Spectrally Resolved, Functional Super-Resolution Microscopy Reveals Nanoscale Compositional Heterogeneity in Live-Cell Membranes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10944-10947	16.4	94
42	Spectrally Resolved Super-Resolution Microscopy Unveils Multipath Reaction Pathways of Single Spiropyran Molecules. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9447-9450	16.4	30
41	NuMA recruits dynein activity to microtubule minus-ends at mitosis. <i>ELife</i> , <b>2017</b> , 6,	8.9	52
40	Deep nuclear invaginations are linked to cytoskeletal filaments - integrated bioimaging of epithelial cells in 3D culture. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 177-189	5.3	49

39	Direct Optical Visualization of Graphene and Its Nanoscale Defects on Transparent Substrates. <i>Nano Letters</i> , <b>2016</b> , 16, 5027-31	11.5	28
38	Graphene-enabled electron microscopy and correlated super-resolution microscopy of wet cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7384	17.4	96
37	Ultrahigh-throughput single-molecule spectroscopy and spectrally resolved super-resolution microscopy. <i>Nature Methods</i> , <b>2015</b> , 12, 935-8	21.6	142
36	Structure of Microtubule-Based Microtentacles. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 235-236	0.5	
35	Translocation of interleukin-1 $\beta$ into a vesicle intermediate in autophagy-mediated secretion. <i>ELife</i> , <b>2015</b> , 4,	8.9	207
34	Author response: Translocation of interleukin-1 $\beta$ into a vesicle intermediate in autophagy-mediated secretion <b>2015</b> ,		3
33	Graphene in ohmic contact for both n-GaN and p-GaN. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 212101	3.4	17
32	Postsynaptic actin regulates active zone spacing and glutamate receptor apposition at the Drosophila neuromuscular junction. <i>Molecular and Cellular Neurosciences</i> , <b>2014</b> , 61, 241-54	4.8	20
31	Wetting: Contact with what?. <i>Nature Materials</i> , <b>2013</b> , 12, 872-3	27	35
30	Actin, spectrin, and associated proteins form a periodic cytoskeletal structure in axons. <i>Science</i> , <b>2013</b> , 339, 452-6	33.3	787
29	Super-Resolution Imaging Through Stochastic Switching and Localization of Single Molecules: An Overview. <i>Springer Series on Fluorescence</i> , <b>2013</b> , 27-64	0.5	4
28	Visualizing local doping effects of individual water clusters on gold(111)-supported graphene. <i>Nano Letters</i> , <b>2012</b> , 12, 1459-63	11.5	35
27	Dual-objective STORM reveals three-dimensional filament organization in the actin cytoskeleton. <i>Nature Methods</i> , <b>2012</b> , 9, 185-8	21.6	362
26	The microscopic structure of adsorbed water on hydrophobic surfaces under ambient conditions. <i>Nano Letters</i> , <b>2011</b> , 11, 5581-6	11.5	114
25	Atomic force microscopy characterization of room-temperature adlayers of small organic molecules through graphene templating. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2334-7	16.4	34
24	Achieving the theoretical depairing current limit in superconducting nanomesh films. <i>Nano Letters</i> , <b>2010</b> , 10, 4206-10	11.5	22
23	Graphene visualizes the first water adlayers on mica at ambient conditions. <i>Science</i> , <b>2010</b> , 329, 1188-91	33.3	370
22	The crossover from two dimensions to one dimension in granular electronic materials. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 368-72	28.7	61

21	Scanning tunneling microscopy characterization of the electrical properties of wrinkles in exfoliated graphene monolayers. <i>Nano Letters</i> , <b>2009</b> , 9, 4446-51	11.5	208
20	Long, highly-ordered high-temperature superconductor nanowire arrays. <i>Nano Letters</i> , <b>2008</b> , 8, 3845-9	11.5	57
19	Azidation of silicon(111) surfaces. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14910-1	16.4	32
18	Controlled fabrication and electrical properties of long quasi-one-dimensional superconducting nanowire arrays. <i>Nano Letters</i> , <b>2008</b> , 8, 136-41	11.5	28
17	The Emergence of a Coupled Quantum Dot Array in a Doped Silicon Nanowire Gated by Ultrahigh Density Top Gate Electrodes $\square$ <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17852-17860	3.8	3
16	A 160-kilobit molecular electronic memory patterned at 10(11) bits per square centimetre. <i>Nature</i> , <b>2007</b> , 445, 414-7	50.4	1078
15	Size-Dependent Transport and Thermoelectric Properties of Individual Polycrystalline Bismuth Nanowires. <i>Advanced Materials</i> , <b>2006</b> , 18, 864-869	24	170
14	Ground-state equilibrium thermodynamics and switching kinetics of bistable [2]rotaxanes switched in solution, polymer gels, and molecular electronic devices. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 261-79	4.8	203
13	A nanosized Y(2)O(3)-based catalytic chemiluminescent sensor for trimethylamine. <i>Talanta</i> , <b>2005</b> , 65, 913-7	6.2	41
12	An energy-transfer cataluminescence reaction on nanosized catalysts and its application to chemical sensors. <i>Analytica Chimica Acta</i> , <b>2005</b> , 535, 145-152	6.6	40
11	Super-resolution microscopy unveils FIP200-scaffolded, cup-shaped organization of mammalian autophagic initiation machinery		5
10	NuMA Targets Dynein to Microtubule Minus-Ends at Mitosis		2
9	The interaction of crossover formation and the dynamic architecture of the synaptonemal complex during meiosis		4
8	Adaptive actin organization buffers endocytosis against changes in membrane tension		3
7	Genome-wide CRISPRi/a screens in human neurons link lysosomal failure to ferroptosis		8
6	Asymmetrically Positioned Flagellar Control Units Regulate Human Sperm Rotation		1
5	Information-rich localization microscopy through machine learning		1
4	Hypotonic stress induces fast, reversible degradation of the vimentin cytoskeleton via intracellular calcium release		2

- 3 Mitochondrial dysfunction is signaled to the integrated stress response by OMA1, DELE1 and HRI 3
- 2 Tubular ERGIC (t-ERGIC): a SURF4-mediated expressway for ER-to-Golgi transport 2
- 1 Rescue of stalled clathrin-mediated endocytosis by asymmetric Arp2/3-mediated actin assembly 4