Jing Gao

List of Publications by Year
in descending order

73 papers	1,682 citations	279701 23 h-index	330025 37 g-index
76 all docs	76 docs citations	76 times ranked	2448 citing authors

#	Article	IF	Citations
1	The structure and function of cell membranes examined by atomic force microscopy and single-molecule force spectroscopy. Chemical Society Reviews, 2015, 44, 3617-3638.	18.7	131
2	Regulation of EGFR nanocluster formation by ionic protein-lipid interaction. Cell Research, 2014, 24, 959-976.	5.7	109
3	Cryo-EM structure of full-length Î±-synuclein amyloid fibril with Parkinsonâ€™s disease familial A53T mutation. Cell Research, 2020, 30, 360-362.	5.7	94
4	Size-dependent endocytosis of single gold nanoparticles. Chemical Communications, 2011, 47, 8091.	2.2	89
5	Mechanistic insights into EGFR membrane clustering revealed by super-resolution imaging. Nanoscale, 2015, 7, 2511-2519.	2.8	78
6	Cyano-Substituted Perylene Diimides with Linearly Correlated LUMO Levels. Organic Letters, 2014, 16, 394-397.	2.4	65
7	Mechanistic insights into GLUT1 activation and clustering revealed by super-resolution imaging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7033-7038.	3.3	56
8	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. Angewandte Chemie - International Edition, 2021, 60, 26087-26095.	7.2	46
9	The role of CD47-SIRPÎ± immune checkpoint in tumor immune evasion and innate immunotherapy. Life Sciences, 2021, 273, 119150.	2.0	45
10	Variation in Carbohydrates between Cancer and Normal Cell Membranes Revealed by Superâ€Resolution Fluorescence Imaging. Advanced Science, 2016, 3, 1600270.	5.6	42
11	Synthesis and Properties of Naphthobisbenzothiophene Diimides. Organic Letters, 2013, 15, 1366-1369.	2.4	40
12	Progress in the Correlative Atomic Force Microscopy and Optical Microscopy. Sensors, 2017, 17, 938.	2.1	39
13	The structure and function of cell membranes studied by atomic force microscopy. Seminars in Cell and Developmental Biology, 2018, 73, 31-44.	2.3	38
14	Recording force events of single quantum-dot endocytosis. Chemical Communications, 2011, 47, 3377.	2.2	35
15	Mechanical force regulation of YAP by F-actin and GPCR revealed by super-resolution imaging. Nanoscale, 2020, 12, 2703-2714.	2.8	34
16	Inhibition of intrinsic coagulation improves safety and tumor-targeted drug delivery of cationic solid lipid nanoparticles. Biomaterials, 2018, 156, 77-87.	5.7	32
17	Studying the Nucleated Mammalian Cell Membrane by Single Molecule Approaches. PLoS ONE, 2014, 9, e91595.	1.1	31
18	Real-time Imaging of Rabies Virus Entry into Living Vero cells. Scientific Reports, 2015, 5, 11753.	1.6	31

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19	Super-resolution microscopy reveals the reorganization of GLUT4 on plasma membrane regulated by insulin resistance. Journal of Cell Science, 2017, 130, 396-405.	1.2	30
20	Revealing the carbohydrate pattern on a cell surface by super-resolution imaging. Nanoscale, 2015, 7, 3373-3380.	2.8	29
21	A single-molecule force spectroscopy study of the interactions between lectins and carbohydrates on cancer and normal cells. Nanoscale, 2013, 5, 3226.	2.8	27
22	Ultrafast Tracking of a Single Live Virion During the Invagination of a Cell Membrane. Small, 2015, 11, 2782-2788.	5.2	27
23	Agingâ€associated changes in CD47 arrangement and interaction with thrombospondinâ€1 on red blood cells visualized by superâ€resolution imaging. Aging Cell, 2020, 19, e13224.	3.0	27
24	Recording the dynamic endocytosis of single gold nanoparticles by AFM-based force tracing. Nanoscale, 2015, 7, 7545-7549.	2.8	25
25	The Process of Wrapping Virus Revealed by a Force Tracing Technique and Simulations. Advanced Science, 2017, 4, 1600489.	5.6	24
26	Quantitatively Mapping the Assembly Pattern of EpCAM on Cell Membranes with Peptide Probes. Analytical Chemistry, 2020, 92, 1865-1873.	3.2	24
27	High-efficiency localization of Na+â€“K+ ATPases on the cytoplasmic side by direct stochastic optical reconstruction microscopy. Nanoscale, 2013, 5, 11582.	2.8	23
28	The study of single anticancer peptides interacting with HeLa cell membranes by single molecule force spectroscopy. Nanoscale, 2012, 4, 1283.	2.8	20
29	Using an RNA aptamer probe for super-resolution imaging of native EGFR. Nanoscale Advances, 2019, 1, 291-298.	2.2	19
30	Aptamer-recognized carbohydrates on the cell membrane revealed by super-resolution microscopy. Nanoscale, 2018, 10, 7457-7464.	2.8	18
31	Systemic localization of seven major types of carbohydrates on cell membranes by dSTORM imaging. Scientific Reports, 2016, 6, 30247.	1.6	17
32	Sizeâ€Independent Transmembrane Transporting of Single Tetrahedral DNA Nanostructures. Global Challenges, 2020, 4, 1900075.	1.8	17
33	Studying the mechanism of CD47â€“SIRPÎ± interactions on red blood cells by single molecule force spectroscopy. Nanoscale, 2014, 6, 9951-9954.	2.8	16
34	Cell contact and pressure control of YAP localization and clustering revealed by super-resolution imaging. Nanoscale, 2017, 9, 16993-17003.	2.8	16
35	Aptamer AS1411 utilized for super-resolution imaging of nucleolin. Talanta, 2020, 217, 121037.	2.9	16
36	Organization of Protein Tyrosine Kinase-7 on Cell Membranes Characterized by Aptamer Probe-Based STORM Imaging. Analytical Chemistry, 2021, 93, 936-945.	3.2	16

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37	Detection of carbohydrates on the surface of cancer and normal cells by topography and recognition imaging. Chemical Communications, 2013, 49, 2980.	2.2	15
38	Revealing the cellular localization of STAT1 during the cell cycle by super-resolution imaging. Scientific Reports, 2015, 5, 9045.	1.6	15
39	Studying the dynamic mechanism of transporting a single drug carrier-polyamidoamine dendrimer through cell membranes by force tracing. Nanoscale, 2016, 8, 18027-18031.	2.8	15
40	Single glucose molecule transport process revealed by force tracing and molecular dynamics simulations. Nanoscale Horizons, 2018, 3, 517-524.	4.1	14
41	Development of small molecule inhibitor-based fluorescent probes for highly specific super-resolution imaging. Nanoscale, 2020, 12, 21591-21598.	2.8	13
42	Ginsenoside PPDâ€™s Antitumor Effect via Down-Regulation of mTOR Revealed by Super-Resolution Imaging. Molecules, 2017, 22, 486.	1.7	12
43	Mechanistic insights into the distribution of carbohydrate clusters on cell membranes revealed by dSTORM imaging. Nanoscale, 2016, 8, 13611-13619.	2.8	11
44	Developing substrate-based small molecule fluorescent probes for super-resolution fluorescent imaging of various membrane transporters. Nanoscale Horizons, 2020, 5, 523-529.	4.1	11
45	Correlative dual-color dSTORM/AFM reveals protein clusters at the cytoplasmic side of human bronchial epithelium membranes. Nanoscale, 2020, 12, 9950-9957.	2.8	11
46	Evaluating the efficacy of the anticancer drug cetuximab by atomic force microscopy. RSC Advances, 2018, 8, 21793-21797.	1.7	10
47	Super-resolution imaging of cancer-associated carbohydrates using aptamer probes. Nanoscale, 2019, 11, 14879-14886.	2.8	10
48	Measurement of mechanical properties of naked cell membranes using atomic force microscope puncture test. Talanta, 2020, 210, 120637.	2.9	10
49	The force of transporting a single amino acid into the living cell measured using atomic force microscopy. Chemical Communications, 2013, 49, 8163.	2.2	9
50	Enhanced dSTORM imaging using fluorophores interacting with cucurbituril. Science China Chemistry, 2016, 59, 848-852.	4.2	9
51	20(s)-Protopanaxadiol (PPD) increases the radiotherapy sensitivity of laryngeal carcinoma. Food and Function, 2017, 8, 4469-4477.	2.1	7
52	Exploring the trans-membrane dynamic mechanisms of single polyamidoamine nano-drugs <i>via</i> a â€œforce tracingâ€•technique. RSC Advances, 2018, 8, 8626-8630.	1.7	7
53	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. Angewandte Chemie, 2021, 133, 26291-26299.	1.6	7
54	Variation of Trop2 on non-small-cell lung cancer and normal cell membranes revealed by super-resolution fluorescence imaging. Talanta, 2020, 207, 120312.	2.9	6

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55	Structural Mechanism Analysis of Orderly and Efficient Vesicle Transport by High-Resolution Imaging and Fluorescence Tracking. Analytical Chemistry, 2020, 92, 6555-6563.	3.2	6
56	Clustered localization of STAT3 during the cell cycle detected by super-resolution fluorescence microscopy. Methods and Applications in Fluorescence, 2017, 5, 024004.	1.1	5
57	The structural characteristics of mononuclear-macrophage membrane observed by atomic force microscopy. Journal of Structural Biology, 2019, 206, 314-321.	1.3	5
58	Insight into the Different Channel Proteins of Human Red Blood Cell Membranes Revealed by Combined dSTORM and AFM Techniques. Analytical Chemistry, 2021, 93, 14113-14120.	3.2	5
59	CDCP1: A promising diagnostic biomarker and therapeutic target for human cancer. Life Sciences, 2022, 301, 120600.	2.0	5
60	Super-resolution imaging of STAT3 cellular clustering during nuclear transport. RSC Advances, 2016, 6, 54597-54607.	1.7	4
61	Nanoscale insights into full-length prion protein aggregation on model lipid membranes. Chemical Communications, 2016, 52, 8533-8536.	2.2	4
62	Quantitatively mapping the interaction of HER2 and EGFR on cell membranes with peptide probes. Nanoscale, 2021, 13, 17629-17637.	2.8	4
63	Mechanistic Insights into Trop2 Clustering on Lung Cancer Cell Membranes Revealed by Super-resolution Imaging. ACS Omega, 2020, 5, 32456-32465.	1.6	4
64	Mechanism of INSR clustering with insulin activation and resistance revealed by super-resolution imaging. Nanoscale, 2022, 14, 7747-7755.	2.8	4
65	Membrane protein density determining membrane fusion revealed by dynamic fluorescence imaging. Talanta, 2021, 226, 122091.	2.9	3
66	Conventional Molecular and Novel Structural Mechanistic Insights into Orderly Organelle Interactions. Chemical Research in Chinese Universities, 2021, 37, 829-839.	1.3	3
67	The Mechanism of Nano-drug Delivery. Current Pharmacology Reports, 2019, 5, 410-420.	1.5	2
68	Aspirin Reshapes Acetylomes in Inflammatory and Cancer Cells via CoA-Dependent and CoA-Independent Pathways. Journal of Proteome Research, 2020, 19, 962-972.	1.8	2
69	Application of an inhibitor-based probe to reveal the distribution of membrane PSMA in dSTORM imaging. Chemical Communications, 2020, 56, 13241-13244.	2.2	2
70	A multidrug-resistant P-glycoprotein assembly revealed by tariquidar-probe's super-resolution imaging. Nanoscale, 2021, 13, 16995-17002.	2.8	2
71	Pseudoginsengenin DQ exerts antitumour activity against hypopharyngeal cancer cells by targeting the HIF-1Î±-GLUT1 pathway. Cancer Cell International, 2021, 21, 382.	1.8	2
72	Spatiotemporal tracking of the transport of RNA nano-drugs: from transmembrane to intracellular delivery. Nanoscale, 2022, 14, 8919-8928.	2.8	1

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73	InnenrÃ¼cktitelbild: A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility (Angew. Chem. 50/2021). Angewandte Chemie, 2021, 133, 26615-26615.	1.6	0