

Mingjun Cai

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,318
citations

361413

20
h-index

395702

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66
all docs

66
docs citations

66
times ranked

1753
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal Tracing of the Cellular Internalization Process of Rod-Shaped Nanostructures. ACS Nano, 2022, 16, 4059-4071.	14.6	12
2	Mechanism of INSR clustering with insulin activation and resistance revealed by super-resolution imaging. Nanoscale, 2022, 14, 7747-7755.	5.6	4
3	CDCP1: A promising diagnostic biomarker and therapeutic target for human cancer. Life Sciences, 2022, 301, 120600.	4.3	5
4	Spatiotemporal tracking of the transport of RNA nano-drugs: from transmembrane to intracellular delivery. Nanoscale, 2022, 14, 8919-8928.	5.6	1
5	Membrane protein density determining membrane fusion revealed by dynamic fluorescence imaging. Talanta, 2021, 226, 122091.	5.5	3
6	The role of CD47-SIRP α immune checkpoint in tumor immune evasion and innate immunotherapy. Life Sciences, 2021, 273, 119150.	4.3	45
7	Single-molecule Force Microscopy: A Powerful Tool for Studying the Mechanical Properties of Cell Membranes. Current Analytical Chemistry, 2021, 17, .	1.2	0
8	Quantitatively mapping the interaction of HER2 and EGFR on cell membranes with peptide probes. Nanoscale, 2021, 13, 17629-17637.	5.6	4
9	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.	6.5	5
10	Cellâ€Tractionâ€Triggered Onâ€Demand Electrical Stimulation for Neuronâ€Like Differentiation. Advanced Materials, 2021, 33, e2106317.	21.0	49
11	Variation of Trop2 on non-small-cell lung cancer and normal cell membranes revealed by super-resolution fluorescence imaging. Talanta, 2020, 207, 120312.	5.5	6
12	Developing substrate-based small molecule fluorescent probes for super-resolution fluorescent imaging of various membrane transporters. Nanoscale Horizons, 2020, 5, 523-529.	8.0	11
13	Quantitatively Mapping the Assembly Pattern of EpCAM on Cell Membranes with Peptide Probes. Analytical Chemistry, 2020, 92, 1865-1873.	6.5	24
14	Measurement of mechanical properties of naked cell membranes using atomic force microscope puncture test. Talanta, 2020, 210, 120637.	5.5	10
15	Application of an inhibitor-based probe to reveal the distribution of membrane PSMA in dSTORM imaging. Chemical Communications, 2020, 56, 13241-13244.	4.1	2
16	Development of small molecule inhibitor-based fluorescent probes for highly specific super-resolution imaging. Nanoscale, 2020, 12, 21591-21598.	5.6	13
17	Correlative dual-color dSTORM/AFM reveals protein clusters at the cytoplasmic side of human bronchial epithelium membranes. Nanoscale, 2020, 12, 9950-9957.	5.6	11
18	Entry Dynamics of Single Ebola Virus Revealed by Force Tracing. ACS Nano, 2020, 14, 7046-7054.	14.6	19

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19	Size-Dependent Transmembrane Transport of Gold Nanocages. ACS Omega, 2020, 5, 9864-9869.	3.5	5
20	Mechanical force regulation of YAP by F-actin and GPCR revealed by super-resolution imaging. Nanoscale, 2020, 12, 2703-2714.	5.6	34
21	Palladium-Catalyzed Cross-Coupling of Aryl Thioacetates and Chloro(hetero)arenes. Asian Journal of Organic Chemistry, 2020, 9, 214-217.	2.7	3
22	Aptamer AS1411 utilized for super-resolution imaging of nucleolin. Talanta, 2020, 217, 121037.	5.5	16
23	Structural Mechanism Analysis of Orderly and Efficient Vesicle Transport by High-Resolution Imaging and Fluorescence Tracking. Analytical Chemistry, 2020, 92, 6555-6563.	6.5	6
24	Mechanistic Insights into Trop2 Clustering on Lung Cancer Cell Membranes Revealed by Super-resolution Imaging. ACS Omega, 2020, 5, 32456-32465.	3.5	4
25	Super-resolution imaging of cancer-associated carbohydrates using aptamer probes. Nanoscale, 2019, 11, 14879-14886.	5.6	10
26	Atomic Force Microscopy for Cell Membrane Investigation. Methods in Molecular Biology, 2019, 2000, 361-372.	0.9	2
27	The role of resveratrol in bone marrow-derived mesenchymal stem cells from patients with osteoporosis. Journal of Cellular Biochemistry, 2019, 120, 16634-16642.	2.6	26
28	Using an RNA aptamer probe for super-resolution imaging of native EGFR. Nanoscale Advances, 2019, 1, 291-298.	4.6	19
29	Aptamer-recognized carbohydrates on the cell membrane revealed by super-resolution microscopy. Nanoscale, 2018, 10, 7457-7464.	5.6	18
30	The structure and function of cell membranes studied by atomic force microscopy. Seminars in Cell and Developmental Biology, 2018, 73, 31-44.	5.0	38
31	Enantiomeric Effect of d-Amino Acid Substitution on the Mechanism of Action of \pm -Helical Membrane-Active Peptides. International Journal of Molecular Sciences, 2018, 19, 67.	4.1	14
32	Evaluating the efficacy of the anticancer drug cetuximab by atomic force microscopy. RSC Advances, 2018, 8, 21793-21797.	3.6	10
33	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.	7.1	56
34	Lipid-dependent conformational dynamics underlie the functional versatility of T-cell receptor. Cell Research, 2017, 27, 505-525.	12.0	38
35	Clustered localization of STAT3 during the cell cycle detected by super-resolution fluorescence microscopy. Methods and Applications in Fluorescence, 2017, 5, 024004.	2.3	5
36	Cell contact and pressure control of YAP localization and clustering revealed by super-resolution imaging. Nanoscale, 2017, 9, 16993-17003.	5.6	16

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37	Progress in the Correlative Atomic Force Microscopy and Optical Microscopy. <i>Sensors</i> , 2017, 17, 938.	3.8	39
38	Specificity and mechanism of action of alpha-helical membrane-active peptides interacting with model and biological membranes by single-molecule force spectroscopy. <i>Scientific Reports</i> , 2016, 6, 29145.	3.3	12
39	Variation in Carbohydrates between Cancer and Normal Cell Membranes Revealed by Super-Resolution Fluorescence Imaging. <i>Advanced Science</i> , 2016, 3, 1600270.	11.2	42
40	Studying the dynamic mechanism of transporting a single drug carrier-polyamidoamine dendrimer through cell membranes by force tracing. <i>Nanoscale</i> , 2016, 8, 18027-18031.	5.6	15
41	Systemic localization of seven major types of carbohydrates on cell membranes by dSTORM imaging. <i>Scientific Reports</i> , 2016, 6, 30247.	3.3	17
42	Enhanced dSTORM imaging using fluorophores interacting with cucurbituril. <i>Science China Chemistry</i> , 2016, 59, 848-852.	8.2	9
43	Mechanistic insights into the distribution of carbohydrate clusters on cell membranes revealed by dSTORM imaging. <i>Nanoscale</i> , 2016, 8, 13611-13619.	5.6	11
44	Super-resolution imaging of STAT3 cellular clustering during nuclear transport. <i>RSC Advances</i> , 2016, 6, 54597-54607.	3.6	4
45	Revealing the cellular localization of STAT1 during the cell cycle by super-resolution imaging. <i>Scientific Reports</i> , 2015, 5, 9045.	3.3	15
46	Electrochemical Modulation of the Fluorescence of Cyanine Dye Cy5. <i>Electroanalysis</i> , 2015, 27, 1817-1822.	2.9	3
47	Mechanistic insights into EGFR membrane clustering revealed by super-resolution imaging. <i>Nanoscale</i> , 2015, 7, 2511-2519.	5.6	78
48	Ultrafast Tracking of a Single Live Virion During the Invagination of a Cell Membrane. <i>Small</i> , 2015, 11, 2782-2788.	10.0	27
49	Real-time Imaging of Rabies Virus Entry into Living Vero cells. <i>Scientific Reports</i> , 2015, 5, 11753.	3.3	31
50	Studying the Nucleated Mammalian Cell Membrane by Single Molecule Approaches. <i>PLoS ONE</i> , 2014, 9, e91595.	2.5	31
51	Atomic Force Microscopy of Asymmetric Membranes from Turtle Erythrocytes. <i>Molecules and Cells</i> , 2014, 37, 592-597.	2.6	10
52	Regulation of EGFR nanocluster formation by ionic protein-lipid interaction. <i>Cell Research</i> , 2014, 24, 959-976.	12.0	109
53	Mapping the resting and stimulated EGFR in cell membranes with topography and recognition imaging. <i>Analytical Methods</i> , 2014, 6, 7689-7694.	2.7	6
54	Entry of a Novel Marine DNA Virus, Singapore Grouper Iridovirus, into Host Cells Occurs via Clathrin-Mediated Endocytosis and Macropinocytosis in a pH-Dependent Manner. <i>Journal of Virology</i> , 2014, 88, 13047-13063.	3.4	108

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55	Studying the membrane structure of chicken erythrocytes by in situ atomic force microscopy. <i>Analytical Methods</i> , 2014, 6, 8115-8119.	2.7	7
56	Detection of carbohydrates on the surface of cancer and normal cells by topography and recognition imaging. <i>Chemical Communications</i> , 2013, 49, 2980.	4.1	15
57	High-efficiency localization of Na ⁺ â€“K ⁺ ATPases on the cytoplasmic side by direct stochastic optical reconstruction microscopy. <i>Nanoscale</i> , 2013, 5, 11582.	5.6	23
58	A single-molecule force spectroscopy study of the interactions between lectins and carbohydrates on cancer and normal cells. <i>Nanoscale</i> , 2013, 5, 3226.	5.6	27
59	High resolution imaging of mitochondrial membranes by in situ atomic force microscopy. <i>RSC Advances</i> , 2013, 3, 708-712.	3.6	21
60	Direct Evidence of Lipid Rafts by in situ Atomic Force Microscopy. <i>Small</i> , 2012, 8, 1243-1250.	10.0	65
61	Recording force events of single quantum-dot endocytosis. <i>Chemical Communications</i> , 2011, 47, 3377.	4.1	35
62	Locating the Band III protein in quasi-native cell membranes. <i>Analytical Methods</i> , 2010, 2, 805.	2.7	13