

Hongda Wang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,183
citations

430442

18
h-index

414034

32
g-index

53
all docs

53
docs citations

53
times ranked

1570
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure and function of cell membranes examined by atomic force microscopy and single-molecule force spectroscopy. <i>Chemical Society Reviews</i> , 2015, 44, 3617-3638.	18.7	131
2	Regulation of EGFR nanocluster formation by ionic protein-lipid interaction. <i>Cell Research</i> , 2014, 24, 959-976.	5.7	109
3	Mechanistic insights into EGFR membrane clustering revealed by super-resolution imaging. <i>Nanoscale</i> , 2015, 7, 2511-2519.	2.8	78
4	Direct Evidence of Lipid Rafts by in situ Atomic Force Microscopy. <i>Small</i> , 2012, 8, 1243-1250.	5.2	65
5	Mechanistic insights into GLUT1 activation and clustering revealed by super-resolution imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7033-7038.	3.3	56
6	A graphene oxide based biosensor for microcystins detection by fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2012, 38, 31-36.	5.3	51
7	Localization of Na ⁺ /K ⁺ ATPases in Quasi-Native Cell Membranes. <i>Nano Letters</i> , 2009, 9, 4489-4493.	4.5	47
8	Preparation of cell membranes for high resolution imaging by AFM. <i>Ultramicroscopy</i> , 2010, 110, 305-312.	0.8	46
9	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26087-26095.	7.2	46
10	Variation in Carbohydrates between Cancer and Normal Cell Membranes Revealed by Super-Resolution Fluorescence Imaging. <i>Advanced Science</i> , 2016, 3, 1600270.	5.6	42
11	Mechanical force regulation of YAP by F-actin and GPCR revealed by super-resolution imaging. <i>Nanoscale</i> , 2020, 12, 2703-2714.	2.8	34
12	Studying the Nucleated Mammalian Cell Membrane by Single Molecule Approaches. <i>PLoS ONE</i> , 2014, 9, e91595.	1.1	31
13	Revealing the carbohydrate pattern on a cell surface by super-resolution imaging. <i>Nanoscale</i> , 2015, 7, 3373-3380.	2.8	29
14	Ultrafast Tracking of a Single Live Virion During the Invagination of a Cell Membrane. <i>Small</i> , 2015, 11, 2782-2788.	5.2	27
15	The Process of Wrapping Virus Revealed by a Force Tracing Technique and Simulations. <i>Advanced Science</i> , 2017, 4, 1600489.	5.6	24
16	Quantitatively Mapping the Assembly Pattern of EpCAM on Cell Membranes with Peptide Probes. <i>Analytical Chemistry</i> , 2020, 92, 1865-1873.	3.2	24
17	High resolution imaging of mitochondrial membranes by in situ atomic force microscopy. <i>RSC Advances</i> , 2013, 3, 708-712.	1.7	21
18	The Asymmetrical Structure of Golgi Apparatus Membranes Revealed by In situ Atomic Force Microscope. <i>PLoS ONE</i> , 2013, 8, e61596.	1.1	20

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19	Using an RNA aptamer probe for super-resolution imaging of native EGFR. <i>Nanoscale Advances</i> , 2019, 1, 291-298.	2.2	19
20	Probing the Proteomics Dark Regions by VAILase Cleavage at Aliphatic Amino Acids. <i>Analytical Chemistry</i> , 2020, 92, 2770-2777.	3.2	19
21	Entry Dynamics of Single Ebola Virus Revealed by Force Tracing. <i>ACS Nano</i> , 2020, 14, 7046-7054.	7.3	19
22	Aptamer-recognized carbohydrates on the cell membrane revealed by super-resolution microscopy. <i>Nanoscale</i> , 2018, 10, 7457-7464.	2.8	18
23	Systemic localization of seven major types of carbohydrates on cell membranes by dSTORM imaging. <i>Scientific Reports</i> , 2016, 6, 30247.	1.6	17
24	Cell contact and pressure control of YAP localization and clustering revealed by super-resolution imaging. <i>Nanoscale</i> , 2017, 9, 16993-17003.	2.8	16
25	Aptamer AS1411 utilized for super-resolution imaging of nucleolin. <i>Talanta</i> , 2020, 217, 121037.	2.9	16
26	Organization of Protein Tyrosine Kinase-7 on Cell Membranes Characterized by Aptamer Probe-Based STORM Imaging. <i>Analytical Chemistry</i> , 2021, 93, 936-945.	3.2	16
27	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.	2.8	15
28	Single glucose molecule transport process revealed by force tracing and molecular dynamics simulations. <i>Nanoscale Horizons</i> , 2018, 3, 517-524.	4.1	14
29	Development of small molecule inhibitor-based fluorescent probes for highly specific super-resolution imaging. <i>Nanoscale</i> , 2020, 12, 21591-21598.	2.8	13
30	Spatiotemporal Tracing of the Cellular Internalization Process of Rod-Shaped Nanostructures. <i>ACS Nano</i> , 2022, 16, 4059-4071.	7.3	12
31	Mechanistic insights into the distribution of carbohydrate clusters on cell membranes revealed by dSTORM imaging. <i>Nanoscale</i> , 2016, 8, 13611-13619.	2.8	11
32	Developing substrate-based small molecule fluorescent probes for super-resolution fluorescent imaging of various membrane transporters. <i>Nanoscale Horizons</i> , 2020, 5, 523-529.	4.1	11
33	Correlative dual-color dSTORM/AFM reveals protein clusters at the cytoplasmic side of human bronchial epithelium membranes. <i>Nanoscale</i> , 2020, 12, 9950-9957.	2.8	11
34	Super-resolution imaging of cancer-associated carbohydrates using aptamer probes. <i>Nanoscale</i> , 2019, 11, 14879-14886.	2.8	10
35	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. <i>Angewandte Chemie</i> , 2021, 133, 26291-26299.	1.6	7
36	Identifying a Membrane-Type 2 Matrix Metalloproteinase-Targeting Peptide for Human Lung Cancer Detection and Targeting Chemotherapy with Functionalized Mesoporous Silica. <i>ACS Applied Bio Materials</i> , 2019, 2, 397-405.	2.3	6

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37	Variation of Trop2 on non-small-cell lung cancer and normal cell membranes revealed by super-resolution fluorescence imaging. <i>Talanta</i> , 2020, 207, 120312.	2.9	6
38	Structural Mechanism Analysis of Orderly and Efficient Vesicle Transport by High-Resolution Imaging and Fluorescence Tracking. <i>Analytical Chemistry</i> , 2020, 92, 6555-6563.	3.2	6
39	Revealing the Cell Entry Dynamic Mechanism of Single Rabies Virus Particle. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 838-842.	1.3	6
40	The structural characteristics of mononuclear-macrophage membrane observed by atomic force microscopy. <i>Journal of Structural Biology</i> , 2019, 206, 314-321.	1.3	5
41	Insight into the Different Channel Proteins of Human Red Blood Cell Membranes Revealed by Combined dSTORM and AFM Techniques. <i>Analytical Chemistry</i> , 2021, 93, 14113-14120.	3.2	5
42	Correlative dual-alternating-color photoswitching fluorescence imaging and AFM enable ultrastructural analyses of complex structures with nanoscale resolution. <i>Nanoscale</i> , 2020, 12, 17203-17212.	2.8	4
43	Quantitatively mapping the interaction of HER2 and EGFR on cell membranes with peptide probes. <i>Nanoscale</i> , 2021, 13, 17629-17637.	2.8	4
44	Mechanistic Insights into Trop2 Clustering on Lung Cancer Cell Membranes Revealed by Super-resolution Imaging. <i>ACS Omega</i> , 2020, 5, 32456-32465.	1.6	4
45	Membrane protein density determining membrane fusion revealed by dynamic fluorescence imaging. <i>Talanta</i> , 2021, 226, 122091.	2.9	3
46	Conventional Molecular and Novel Structural Mechanistic Insights into Orderly Organelle Interactions. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 829-839.	1.3	3
47	Application of an inhibitor-based probe to reveal the distribution of membrane PSMA in dSTORM imaging. <i>Chemical Communications</i> , 2020, 56, 13241-13244.	2.2	2
48	A multidrug-resistant P-glycoprotein assembly revealed by tariquidar-probe's super-resolution imaging. <i>Nanoscale</i> , 2021, 13, 16995-17002.	2.8	2
49	Spatiotemporal tracking of the transport of RNA nano-drugs: from transmembrane to intracellular delivery. <i>Nanoscale</i> , 2022, 14, 8919-8928.	2.8	1
50	Turn-On Assay for HIV-1 Protease Inhibitor Selection. <i>ACS Applied Bio Materials</i> , 2020, 3, 7706-7711.	2.3	0
51	Single-molecule Force Microscopy: A Powerful Tool for Studying the Mechanical Properties of Cell Membranes. <i>Current Analytical Chemistry</i> , 2021, 17, .	0.6	0