M I Li

List of Publications by Year in descending order

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71	1,286	331670	377865
papers	citations	21 h-index	34 g-index

73	73	73	1327
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Bioinspired Alginate-Gum Arabic Hydrogel with Micro-/Nanoscale Structures for Controlled Drug Release in Chronic Wound Healing. ACS Applied Materials & Interfaces, 2017, 9, 22160-22175.	8.0	127
2	Atomic Force Microscopy in Characterizing Cell Mechanics for Biomedical Applications: A Review. IEEE Transactions on Nanobioscience, 2017, 16, 523-540.	3.3	88
3	Atomic force microscopy imaging and mechanical properties measurement of red blood cells and aggressive cancer cells. Science China Life Sciences, 2012, 55, 968-973.	4.9	77
4	Advances in atomic force microscopy for single-cell analysis. Nano Research, 2019, 12, 703-718.	10.4	66
5	Imaging and measuring the rituximab-induced changes of mechanical properties in B-lymphoma cells using atomic force microscopy. Biochemical and Biophysical Research Communications, 2011, 404, 689-694.	2.1	46
6	Nanoscale monitoring of drug actions on cell membrane using atomic force microscopy. Acta Pharmacologica Sinica, 2015, 36, 769-782.	6.1	46
7	Nanoscale Imaging and Mechanical Analysis of Fc Receptor-Mediated Macrophage Phagocytosis against Cancer Cells. Langmuir, 2014, 30, 1609-1621.	3.5	45
8	Atomic force microscopy for revealing micro/nanoscale mechanics in tumor metastasis: from single cells to microenvironmental cues. Acta Pharmacologica Sinica, 2021, 42, 323-339.	6.1	43
9	Nanoscale imaging and force probing of biomolecular systems using atomic force microscopy: from single molecules to living cells. Nanoscale, 2017, 9, 17643-17666.	5.6	39
10	Atomic force microscopy study of the antigenâ€antibody binding force on patient cancer cells based on ROR1 fluorescence recognition. Journal of Molecular Recognition, 2013, 26, 432-438.	2.1	37
11	Viscoelastic Properties Measurement of Human Lymphocytes by Atomic Force Microscopy Based on Magnetic Beads Cell Isolation. IEEE Transactions on Nanobioscience, 2016, 15, 398-411.	3.3	33
12	FluidFM for single-cell biophysics. Nano Research, 2022, 15, 773-786.	10.4	33
13	Progress in Nanorobotics for Advancing Biomedicine. IEEE Transactions on Biomedical Engineering, 2021, 68, 130-147.	4.2	32
14	Atomic force microscopy studies on cellular elastic and viscoelastic properties. Science China Life Sciences, 2018, 61, 57-67.	4.9	30
15	Effects of methotrexate on the viscoelastic properties of single cells probed by atomic force microscopy. Journal of Biological Physics, 2016, 42, 551-569.	1.5	28
16	Nanoscale mapping and organization analysis of target proteins on cancer cells from B-cell lymphoma patients. Experimental Cell Research, 2013, 319, 2812-2821.	2.6	27
17	Imaging and Force Recognition of Single Molecular Behaviors Using Atomic Force Microscopy. Sensors, 2017, 17, 200.	3.8	26
18	Quantitative Analysis of Drug-Induced Complement-Mediated Cytotoxic Effect on Single Tumor Cells Using Atomic Force Microscopy and Fluorescence Microscopy. IEEE Transactions on Nanobioscience, 2015, 14, 84-94.	3.3	25

#	Article	IF	Citations
19	Applications of Micro/Nano Automation Technology in Detecting Cancer Cells for Personalized Medicine. IEEE Nanotechnology Magazine, 2017, 16, 217-229.	2.0	25
20	Atomic Force Microscopy in Probing Tumor Physics for Nanomedicine. IEEE Nanotechnology Magazine, 2019, 18, 83-113.	2.0	24
21	Nanoscale Quantifying the Effects of Targeted Drug on Chemotherapy in Lymphoma Treatment Using Atomic Force Microscopy. IEEE Transactions on Biomedical Engineering, 2016, 63, 2187-2199.	4.2	22
22	Effects of temperature and cellular interactions on the mechanics and morphology of human cancer cells investigated by atomic force microscopy. Science China Life Sciences, 2015, 58, 889-901.	4.9	21
23	Research progress in quantifying the mechanical properties of single living cells using atomic force microscopy. Science Bulletin, 2014, 59, 4020-4029.	1.7	20
24	Peak force tapping atomic force microscopy for advancing cell and molecular biology. Nanoscale, 2021, 13, 8358-8375.	5.6	20
25	AFM analysis of the multiple types of molecular interactions involved in rituximab lymphoma therapy on patient tumor cells and NK cells. Cellular Immunology, 2014, 290, 233-244.	3.0	19
26	Nanoscale characterization of dynamic cellular viscoelasticity by atomic force microscopy with varying measurement parameters. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 193-201.	3.1	19
27	Atomic force microscopy imaging of live mammalian cells. Science China Life Sciences, 2013, 56, 811-817.	4.9	18
28	Nanoscale distribution of CD20 on Bâ€cell lymphoma tumour cells and its potential role in the clinical efficacy of rituximab. Journal of Microscopy, 2014, 254, 19-30.	1.8	17
29	Nanotopographical Surfaces for Regulating Cellular Mechanical Behaviors Investigated by Atomic Force Microscopy. ACS Biomaterials Science and Engineering, 2019, 5, 5036-5050.	5.2	17
30	Imaging and measuring the biophysical properties of Fc gamma receptors on single macrophages using atomic force microscopy. Biochemical and Biophysical Research Communications, 2013, 438, 709-714.	2.1	16
31	Progress of AFM single-cell and single-molecule morphology imaging. Science Bulletin, 2013, 58, 3177-3182.	1.7	15
32	Detecting CD20-Rituximab interaction forces using AFM single-molecule force spectroscopy. Science Bulletin, 2011, 56, 3829-3835.	1.7	14
33	A Fully Automated System for Measuring Cellular Mechanical Properties. Journal of the Association for Laboratory Automation, 2012, 17, 443-448.	2.8	14
34	Progress in measuring biophysical properties of membrane proteins with AFM single-molecule force spectroscopy. Science Bulletin, 2014, 59, 2717-2725.	1.7	13
35	Multiparametric atomic force microscopy imaging of single native exosomes. Acta Biochimica Et Biophysica Sinica, 2021, 53, 385-388.	2.0	13
36	Rapid recognition and functional analysis of membrane proteins on human cancer cells using atomic force microscopy. Journal of Immunological Methods, 2016, 436, 41-49.	1.4	11

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37	The dynamic interactions between chemotherapy drugs and plasmid DNA investigated by atomic force microscopy. Science China Materials, 2017, 60, 269-278.	6.3	11
38	A Review of Nanoscale Characterizing Individual DNA Behaviors Using Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2018, 17, 920-933.	2.0	9
39	Tunable Hybrid Biopolymeric Hydrogel Scaffolds Based on Atomic Force Microscopy Characterizations for Tissue Engineering. IEEE Transactions on Nanobioscience, 2019, 18, 597-610.	3.3	9
40	Nanoscale Multiparametric Imaging of Peptide-Assembled Nanofibrillar Hydrogels by Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2019, 18, 315-328.	2.0	9
41	Atomic Force Microscopy as a Powerful Multifunctional Tool for Probing the Behaviors of Single Proteins. IEEE Transactions on Nanobioscience, 2020, 19, 78-99.	3.3	9
42	Mapping CD20 molecules on the lymphoma cell surface using atomic force microscopy. Science Bulletin, 2013, 58, 1516-1519.	1.7	8
43	Biological Applications of a Nanomanipulator Based on AFM: In situ visualization and quantification of cellular behaviors at the single-molecule level. IEEE Nanotechnology Magazine, 2015, 9, 25-35.	1.3	8
44	In Situ High-Resolution AFM Imaging and Force Probing of Cell Culture Medium-Forming Nanogranular Surfaces for Cell Growth. IEEE Transactions on Nanobioscience, 2020, 19, 385-393.	3.3	8
45	Detecting CD20-Rituximab specific interactions on lymphoma cells using atomic force microscopy. Science China Life Sciences, 2010, 53, 1189-1195.	4.9	6
46	Applications of Atomic Force Microscopy in Exploring Drug Actions in Lymphoma-Targeted Therapy at the Nanoscale. BioNanoScience, 2016, 6, 22-32.	3.5	6
47	Hierarchical Micro-/Nanotopography for Tuning Structures and Mechanics of Cells Probed by Atomic Force Microscopy. IEEE Transactions on Nanobioscience, 2021, 20, 543-553.	3.3	6
48	Imaging and measuring the mechanical properties of lymphoma cells using atomic force microscopy. Chinese Science Bulletin, 2010, 55, 2188-2196.	0.7	6
49	Investigating the morphology and mechanical properties of blastomeres with atomic force microscopy. Surface and Interface Analysis, 2013, 45, 1193-1196.	1.8	5
50	Imaging and Measuring the Molecular Force of Lymphoma Pathological Cells Using Atomic Force Microscopy. Scanning, 2013, 35, 40-46.	1.5	5
51	Composite Nanostructures and Adhesion Analysis of Natural Plant Hydrogels Investigated by Atomic Force Microscopy. IEEE Transactions on Nanobioscience, 2019, 18, 448-455.	3.3	5
52	Nanoscale Organization and Functional Analysis of Carnivorous Plant Mucilage by Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2020, 19, 579-593.	2.0	3
53	Introduction to Atomic Force Microscopy-Based Nanorobotics for Biomedical Applications. Springer Theses, 2018, , 1-20.	0.1	2
54	Nanoscale imaging and mechanical analysis of viral infection on cells by atomic force microscopy. Acta Biochimica Et Biophysica Sinica, 2020, 52, 1289-1292.	2.0	2

#	Article	IF	Citations
55	Measuring the physical properties of the lymphoma cells using atomic force microscopy. , 2010, , .		1
56	Imaging and mapping individual target proteins on clinical lymphoma cells by AFM. , 2015, , .		1
57	Investigation of Proteinâ€“Protein Interactions in Cancer Targeted Therapy Using Nanorobots. , 2013, , 125-158.		1
58	Stiffness Measurement of Burkitt's Lymphoma Cells with Atomic Force Microscopy. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
59	An experimental study on imaging burkitt's lymphoma cells by atomic force microscope. , 2010, , .		0
60	Measuring the molecular force of Burkitt's lymphoma patient cells using AFM. , 2010, , .		0
61	An experimental study on protein-protein interaction using atomic force microscopy. , 2010, , .		0
62	Investigating the relationship between CD20-Rituximab binding force and mechanical properties of Lymphom B cells using atomic force microscopy. , 2012, , .		0
63	Force curve classification using independent component analysis and support vector machine. , 2015, , .		0
64	Detecting the micro/nano physical properties of single lymphoma cells with atomic force microscopy. , 2017, , .		0
65	Immobilization Methods for Observing Living Mammalian Suspended Cells by AFM. Springer Theses, 2018, , 21-31.	0.1	0
66	Measuring the Mechanical Properties of Single Cells by AFM. Springer Theses, 2018, , 33-47.	0.1	0
67	Single-Molecule Recognition and Force Measurements by AFM. Springer Theses, 2018, , 49-64.	0.1	0
68	Mapping Membrane Proteins on Cell Surface by AFM. Springer Theses, 2018, , 65-77.	0.1	0
69	Investigations of Cellular and Molecular Biophysical Properties by Atomic Force Microscopy Nanorobotics. Springer Theses, 2018, , .	0.1	0
70	Applications of AFM Cellular and Molecular Biophysical Detection in Clinical Lymphoma Rituximab Treatment. Springer Theses, 2018, , 79-128.	0.1	0
71	Measurement and analysis of cellular viscoelastic properties using atomic force microscopy. Chinese Science Bulletin, 2019, 64, 1610-1619.	0.7	0