Jitao Zhang

List of Publications by Year
in descending order

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28	600	687363 13	794594 19
papers	citations	h-index	g-index

29	29	29	559
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brillouin flow cytometry for label-free mechanical phenotyping of the nucleus. Lab on A Chip, 2017, 17, 663-670.	6.0	65
2	Nuclear Mechanics within Intact Cells Is Regulated by Cytoskeletal Network and Internal Nanostructures. Small, 2020, 16, e1907688.	10.0	52
3	Line-scanning Brillouin microscopy for rapid non-invasive mechanical imaging. Scientific Reports, 2016, 6, 35398.	3.3	48
4	Electrical Programming of Soft Matter: Using Temporally Varying Electrical Inputs To Spatially Control Self Assembly. Biomacromolecules, 2018, 19, 364-373.	5.4	46
5	Evaluating biomechanical properties of murine embryos using Brillouin microscopy and optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 1.	2.6	46
6	Tissue biomechanics during cranial neural tube closure measured by Brillouin microscopy and optical coherence tomography. Birth Defects Research, 2019, 111, 991-998.	1.5	43
7	High-extinction virtually imaged phased array-based Brillouin spectroscopy of turbid biological media. Applied Physics Letters, 2016, 108, 203701.	3.3	42
8	Tumor cell nuclei soften during transendothelial migration. Journal of Biomechanics, 2021, 121, 110400.	2.1	42
9	Dorsoventral polarity directs cell responses to migration track geometries. Science Advances, 2020, 6, eaba6505.	10.3	39
10	Mapping mechanical properties of biological materials via an add-on Brillouin module to confocal microscopes. Nature Protocols, 2021, 16, 1251-1275.	12.0	38
11	Multimodal quantitative optical elastography of the crystalline lens with optical coherence elastography and Brillouin microscopy. Biomedical Optics Express, 2020, 11, 2041.	2.9	36
12	High-finesse sub-GHz-resolution spectrometer employing VIPA etalons of different dispersion. Optics Letters, 2015, 40, 4436.	3.3	25
13	Etalon filters for Brillouin microscopy of highly scattering tissues. Optics Express, 2016, 24, 22232.	3.4	24
14	Multimodal imaging system combining optical coherence tomography and Brillouin microscopy for neural tube imaging. Optics Letters, 2022, 47, 1347.	3.3	14
15	Noninvasive Imaging: Brillouin Confocal Microscopy. Advances in Experimental Medicine and Biology, 2018, 1092, 351-364.	1.6	11
16	Note: Real-time absolute air refractometer. Review of Scientific Instruments, 2014, 85, 056107.	1.3	9
17	Contribution assessment of antenna structure and in-gap photocurrent in terahertz radiation of photoconductive antenna. Journal of Applied Physics, 2018, 124, 053107.	2.5	7
18	Numerical analysis of terahertz generation characteristics of photoconductive antenna. , 2014, , .		4

#	Article	IF	Citations
19	Enhanced terahertz radiation of photoconductive antenna fabricated on GaAs-on-sapphire. AIP Advances, 2019, 9, .	1.3	2
20	Theoretical and experimental study of a terahertz time-domain spectrometer based on photoconductive antenna. , 2014, , .		1
21	Comparison of photoconductive antenna performance on LT-GaAs and SI-GaAs substrates. , 2014, , .		1
22	THz photoconductive antenna array based near field imaging. , 2015, , .		1
23	Detection properties of photoconductive antennas fabricated on low-temperature-grown GaAs and ErAs:GaAs at subterahertz band. Optical Engineering, 2020, 59, 1.	1.0	1
24	Terahertz emission properties of butterfly-shaped photoconductive antennas based on LT-GaAs and SI-GaAs substrates. , 2014, , .		0
25	Time-domain THz near-field imaging incorporating Hadamard multiplexing method. , 2016, , .		0
26	Noncontact Characterization of Nuclear Mechanics within Intact Cells using Brillouin Microscopy. , 2018, , .		0
27	Biomechanical Properties of Murine Embryos Using Optical Coherence Tomography and Brilloiun Microscopy. , 2018, , .		0
28	Nuclear Mechanics: Nuclear Mechanics within Intact Cells Is Regulated by Cytoskeletal Network and Internal Nanostructures (Small 18/2020). Small, 2020, 16, 2070098.	10.0	0