Tianzhi Luo

List of Publications by Year
in descending order

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33	1,094	687220 13	477173 29
papers	citations	h-index	g-index

35	35	35	1582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust moving total least squares: A technique for the reconstruction of measurement data in the presence of multiple outliers. Mechanical Systems and Signal Processing, 2022, 167, 108542.	4.4	1
2	Cell-in-cell structure mediates in-cell killing suppressed by CD44. Cell Discovery, 2022, 8, 35.	3.1	14
3	An Î±-moving total least squares fitting method for measurement data. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 65-72.	1.5	0
4	Role and dynamics of vacuolar pH during cell-in-cell mediated death. Cell Death and Disease, 2021, 12, 119.	2.7	15
5	Multi-scale simulation of early kidney branching morphogenesis. Physical Biology, 2021, 18, 026005.	0.8	6
6	Optimized Hierarchical Structure and Chemical Gradients Promote the Biomechanical Functions of the Spike of Mantis Shrimps. ACS Applied Materials & Interfaces, 2021, 13, 17380-17391.	4.0	8
7	Multi-scale design of the chela of the hermit crab Coenobita brevimanus. Acta Biomaterialia, 2021, 127, 229-241.	4.1	5
8	On-Chip Construction of Liver Lobules with Self-Assembled Perfusable Hepatic Sinusoid Networks. ACS Applied Materials & Interfaces, 2021, 13, 32640-32652.	4.0	24
9	Polyacrylamide/Chitosan-Based Conductive Double Network Hydrogels with Outstanding Electrical and Mechanical Performance at Low Temperatures. ACS Applied Materials & Interfaces, 2021, 13, 34942-34953.	4.0	63
10	Modeling nonalcoholic fatty liver disease on a liver lobule chip with dual blood supply. Acta Biomaterialia, 2021, 134, 228-239.	4.1	30
11	Curve and surface reconstruction based on MTLS algorithm combined with k-means clustering. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109737.	2.5	10
12	A Novel Reconstruction Method for Measurement Data Based on MTLS Algorithm. Sensors, 2020, 20, 6449.	2.1	0
13	On-Chip Sonoporation-Based Flow Cytometric Magnetic Labeling. ACS Biomaterials Science and Engineering, 2020, 6, 3187-3196.	2.6	2
14	Indirect repulsion between actin binding proteins induces the local pattern formation of protein clusters. Extreme Mechanics Letters, 2020, 38, 100740.	2.0	1
15	The mechanobiology of actin cytoskeletal proteins during cellâ€“cell fusion. Journal of the Royal Society Interface, 2019, 16, 20190022.	1.5	6
16	Spectrin is a mechanoresponsive protein shaping fusogenic synapse architecture during myoblast fusion. Nature Cell Biology, 2018, 20, 688-698.	4.6	43
17	Parallel Compression Is a Fast Low-Cost Assay for the High-Throughput Screening of Mechanosensory Cytoskeletal Proteins in Cells. ACS Applied Materials & Interfaces, 2017, 9, 28168-28179.	4.0	3
18	An improved thermo-mechanical model for vertical machining center. International Journal of Advanced Manufacturing Technology, 2016, 87, 2581-2592.	1.5	15

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19	Mechanoaccumulative Elements of the Mammalian Actin Cytoskeleton. Current Biology, 2016, 26, 1473-1479.	1.8	87
20	An improved total least square calibration method for straightness error of coordinate measuring machine. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1665-1672.	1.5	9
21	Yes-associated protein impacts adherens junction assembly through regulating actin cytoskeleton organization. American Journal of Physiology - Renal Physiology, 2016, 311, G396-G411.	1.6	31
22	Curve and surface reconstruction method for measurement data. Measurement: Journal of the International Measurement Confederation, 2016, 78, 278-282.	2.5	11
23	On the self-patterning of islands by mechanical constraints during electrochemical deposition. Applied Physics A: Materials Science and Processing, 2015, 118, 163-172.	1.1	0
24	Cell shape regulation through mechanosensory feedback control. Journal of the Royal Society Interface, 2015, 12, 20150512.	1.5	17
25	Kinetic Monte Carlo simulations of the assembly of filamentous biomacromolecules by the dimer addition mechanism. RSC Advances, 2015, 5, 3922-3929.	1.7	5
26	Mimicking the mechanical properties of the cell cortex by the self-assembly of an actin cortex in vesicles. Applied Physics Letters, 2014, 104, 153701.	1.5	18
27	Competition between human cells by entosis. Cell Research, 2014, 24, 1299-1310.	5.7	180
28	Morphology evolution during stress relaxation of cobalt films due to dissolution in electrolyte solutions. RSC Advances, 2014, 4, 37164-37170.	1.7	3
29	Molecular mechanisms of cellular mechanosensing. Nature Materials, 2013, 12, 1064-1071.	13.3	231
30	Understanding the Cooperative Interaction between Myosin II and Actin Cross-Linkers Mediated by Actin Filaments during Mechanosensation. Biophysical Journal, 2012, 102, 238-247.	0.2	82
31	Cytokinesis through biochemicalâ€“mechanical feedback loops. Seminars in Cell and Developmental Biology, 2010, 21, 866-873.	2.3	30
32	The Role of the Actin Cytoskeleton in Mechanosensation. , 2010, , 25-65.		2
33	Mechanosensing through Cooperative Interactions between Myosin II and the Actin Crosslinker Cortexillin I. Current Biology, 2009, 19, 1421-1428.	1.8	142