

Juan Ren

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5084687/juan-ren-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

266
citations

10
h-index

14
g-index

41
ext. papers

369
ext. citations

3.4
avg, IF

4.01
L-index

#	Paper	IF	Citations
32	An Atomic Force Microscope Study Revealed Two Mechanisms in the Effect of Anticancer Drugs on Rate-Dependent Young's Modulus of Human Prostate Cancer Cells. <i>PLoS ONE</i> , 2015 , 10, e0126107	3.7	27
31	High-speed adaptive contact-mode atomic force microscopy imaging with near-minimum-force. <i>Review of Scientific Instruments</i> , 2014 , 85, 073706	1.7	23
30	Indentation quantification for in-liquid nanomechanical measurement of soft material using an atomic force microscope: rate-dependent elastic modulus of live cells. <i>Physical Review E</i> , 2013 , 88, 052711	2.4	21
29	Finite element modeling of living cells for AFM indentation-based biomechanical characterization. <i>Micron</i> , 2019 , 116, 108-115	2.3	20
28	Atomic force microscopy study revealed velocity-dependence and nonlinearity of nanoscale poroelasticity of eukaryotic cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 78, 65-73	4.1	20
27	A Control-Based Approach to Accurate Nanoindentation Quantification in Broadband Nanomechanical Measurement Using Scanning Probe Microscope. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 46-54	2.6	17
26	Nonlinear Cellular Mechanical Behavior Adaptation to Substrate Mechanics Identified by Atomic Force Microscope. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
25	High-speed AFM imaging via iterative learning-based model predictive control. <i>Mechatronics</i> , 2019 , 57, 86-94	3	13
24	High-speed atomic force microscope imaging: adaptive multiloop mode. <i>Physical Review E</i> , 2014 , 90, 012405	2.4	11
23	Recurrent-Neural-Network-Based Predictive Control of Piezo Actuators for Trajectory Tracking. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2885-2896	5.5	11
22	Enhanced measurement of broadband nanomechanical property of polymers using atomic force microscope. <i>Applied Physics Letters</i> , 2013 , 102, 183116	3.4	10
21	Effect of F-actin and Microtubules on Cellular Mechanical Behavior Studied Using Atomic Force Microscope and an Image Recognition-Based Cytoskeleton Quantification Approach. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
20	Adaptive-scanning, near-minimum-deformation atomic force microscope imaging of soft sample in liquid: Live mammalian cell example. <i>Ultramicroscopy</i> , 2018 , 186, 150-157	3.1	9
19	Receptor-mediated endocytosis generates nanomechanical force reflective of ligand identity and cellular property. <i>Journal of Cellular Physiology</i> , 2018 , 233, 5908-5919	7	7
18	An Image Recognition-Based Approach to Actin Cytoskeleton Quantification. <i>Electronics (Switzerland)</i> , 2018 , 7, 443	2.6	7
17	Study of Cholesterol Repletion Effect on Nanomechanical Properties of Human Umbilical Vein Endothelial Cell Via Rapid Broadband Atomic Force Microscopy. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	6
16	Note: Precision control of nano-positioning stage: An iterative learning-based model predictive control approach. <i>Review of Scientific Instruments</i> , 2018 , 89, 076103	1.7	6

15	Investigation of the effect of substrate morphology on MDCK cell mechanical behavior using atomic force microscopy. <i>Applied Physics Letters</i> , 2019 , 115, 063701	3.4	6
14	An experimental study of rain erosion effects on a hydro-/ice-phobic coating pertinent to Unmanned-Aerial-System (UAS) inflight icing mitigation. <i>Cold Regions Science and Technology</i> , 2021 , 181, 103196	3.8	6
13	Unique Orientation of the Solid-Solid Interface at the Janus Particle Boundary Induced by Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9834-9841	6.4	5
12	Linearization of Recurrent-Neural-Network- Based Models for Predictive Control of Nano-Positioning Systems Using Data-Driven Koopman Operators. <i>IEEE Access</i> , 2020 , 8, 147077-147088	3.5	5
11	High-speed broadband monitoring of cell viscoelasticity in real time shows myosin-dependent oscillations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1857-1868	3.8	3
10	Recurrent-neural-network-based Predictive Control of Piezo Actuators for Precision Trajectory Tracking 2019 ,		2
9	Tracking Control Using Recurrent-Neural-Network-Based Inversion Model: A Case Study on a Piezo Actuator. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11409-11419	8.9	2
8	High-speed dynamic-mode atomic force microscopy imaging of polymers: an adaptive multiloop-mode approach. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1563-1570	3	1
7	Actin Cytoskeleton Morphology Modeling Using Graph Embedding and Classification in Machine Learning. <i>IFAC-PapersOnLine</i> , 2021 , 54, 328-333	0.7	1
6	Soft Ferrofluid Actuator Based on 3D-Printed Scaffold Removal. <i>3D Printing and Additive Manufacturing</i> , 2021 , 8, 126-135	4	1
5	Iterative Learning-based Model Predictive Control for Precise Trajectory Tracking of Piezo Nanopositioning Stage 2018 ,		1
4	AI Guided Measurement of Live Cells Using AFM. <i>IFAC-PapersOnLine</i> , 2021 , 54, 316-321	0.7	0
3	Biobased superhydrophobic coating enabled by nanoparticle assembly. <i>Nanoscale Advances</i> , 2021 , 3, 4037-4047	5.1	0
2	Long Short-term Memory Neural Network-based System Identification and Augmented Predictive Control of Piezoelectric Actuators for Precise Trajectory Tracking. <i>IFAC-PapersOnLine</i> , 2021 , 54, 38-45	0.7	
1	Modeling of Soft Sample Deformation in Atomic Force Microscope Imaging: Live Mammalian Cell Example. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800036	3.5	