

Juan Ren

List of Publications by Year in Descending Order

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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	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	
31	AI Guided Measurement of Live Cells Using AFM. <i>IFAC-PapersOnLine</i> , 2021 , 54, 316-321	0.7	0
30	Actin Cytoskeleton Morphology Modeling Using Graph Embedding and Classification in Machine Learning. <i>IFAC-PapersOnLine</i> , 2021 , 54, 328-333	0.7	1
29	Soft Ferrofluid Actuator Based on 3D-Printed Scaffold Removal. <i>3D Printing and Additive Manufacturing</i> , 2021 , 8, 126-135	4	1
28	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
27	Biobased superhydrophobic coating enabled by nanoparticle assembly. <i>Nanoscale Advances</i> , 2021 , 3, 4037-4047	5.1	0
26	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
25	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
24	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
23	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
22	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
21	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
20	Recurrent-neural-network-based Predictive Control of Piezo Actuators for Precision Trajectory Tracking 2019 ,		2
19	High-speed AFM imaging via iterative learning-based model predictive control. <i>Mechatronics</i> , 2019 , 57, 86-94	3	13
18	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	
17	Finite element modeling of living cells for AFM indentation-based biomechanical characterization. <i>Micron</i> , 2019 , 116, 108-115	2.3	20
16	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

15	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
14	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
13	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
12	Iterative Learning-based Model Predictive Control for Precise Trajectory Tracking of Piezo Nanopositioning Stage 2018 ,		1
11	An Image Recognition-Based Approach to Actin Cytoskeleton Quantification. <i>Electronics (Switzerland)</i> , 2018 , 7, 443	2.6	7
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	High-speed atomic force microscope imaging: adaptive multiloop mode. <i>Physical Review E</i> , 2014 , 90, 012405	2.4	11
2	Enhanced measurement of broadband nanomechanical property of polymers using atomic force microscope. <i>Applied Physics Letters</i> , 2013 , 102, 183116	3.4	10
1	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