

Yu M Efremov

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,300
citations

471509

17
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	4D Printing of Shape-Memory Semi-Interpenetrating Polymer Networks Based On Aromatic Heterochain Polymers. <i>Advanced Materials Technologies</i> , 2022, 7, 2100790.	5.8	10
2	3D nanomechanical mapping of subcellular and sub-nuclear structures of living cells by multi-harmonic AFM with long-tip microcantilevers. <i>Scientific Reports</i> , 2022, 12, 529.	3.3	17
3	3D or not 3D: a guide to assess cell viability in 3D cell systems. <i>Soft Matter</i> , 2022, 18, 2222-2233.	2.7	18
4	Role of actin-binding proteins in the regulation of cellular mechanics. <i>European Journal of Cell Biology</i> , 2022, 101, 151241.	3.6	14
5	A mathematical model of in vitro hepatocellular cholesterol and lipoprotein metabolism for hyperlipidemia therapy. <i>PLoS ONE</i> , 2022, 17, e0264903.	2.5	0
6	Experimental studies of the biomechanical properties of the cornea. <i>Vestnik Oftalmologii</i> , 2022, 138, 124.	0.5	0
7	A defined road to tracheal reconstruction: laser structuring and cell support for rapid clinic translation. <i>Stem Cell Research and Therapy</i> , 2022, 13, .	5.5	5
8	Mapping mechanical properties of living cells at nanoscale using intrinsic nanopipette-sample force interactions. <i>Nanoscale</i> , 2021, 13, 6558-6568.	5.6	33
9	Studying the Local Young's Modulus of PC-3 Cells Via Scanning Ion-Conductance Microscopy. <i>Biophysical Journal</i> , 2021, 120, 162a.	0.5	1
10	Terahertz radiation and the skin: a review. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	81
11	A time-shift correction for extraction of viscoelastic parameters from ramp-hold AFM experiments. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SE1002.	1.5	6
12	Mechanical properties of cell sheets and spheroids: the link between single cells and complex tissues. <i>Biophysical Reviews</i> , 2021, 13, 541-561.	3.2	34
13	Numerical Modelling of Multicellular Spheroid Compression: Viscoelastic Fluid vs. Viscoelastic Solid. <i>Mathematics</i> , 2021, 9, 2333.	2.2	3
14	Mechanical Enhancement and Kinetics Regulation of Fmoc-Diphenylalanine Hydrogels by Thioflavin...T. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25339-25345.	13.8	16
15	Thin Thermoresponsive Polymer Films for Cell Culture: Elucidating an Unexpected Thermal Phase Behavior by Atomic Force Microscopy. <i>Langmuir</i> , 2021, 37, 11386-11396.	3.5	7
16	A Hydrophobic Derivative of Ciprofloxacin as a New Photoinitiator of Two-Photon Polymerization: Synthesis and Usage for the Formation of Biocompatible Polylactide-Based 3D Scaffolds. <i>Polymers</i> , 2021, 13, 3385.	4.5	5
17	A Collagen Basketweave from the Giant Squid Mantle as a Robust Scaffold for Tissue Engineering. <i>Marine Drugs</i> , 2021, 19, 679.	4.6	4
18	Optoporation and Recovery of Living Cells under Au Nanoparticle Layer-Mediated NIR-Laser Irradiation. <i>ACS Applied Nano Materials</i> , 2021, 4, 13206-13217.	5.0	7

#	ARTICLE	IF	CITATIONS
19	Measuring viscoelasticity of soft biological samples using atomic force microscopy. <i>Soft Matter</i> , 2020, 16, 64-81.	2.7	143
20	Biomechanical properties of the lens capsule: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103600.	3.1	15
21	Cell spheroid fusion: beyond liquid drops model. <i>Scientific Reports</i> , 2020, 10, 12614.	3.3	43
22	Viscoelasticity and Volume of Cortical Neurons under Glutamate Excitotoxicity and Osmotic Challenges. <i>Biophysical Journal</i> , 2020, 119, 1712-1723.	0.5	10
23	Mechanical properties of anterior lens capsule assessed with AFM and nanoindenter in relation to human aging, pseudoexfoliation syndrome, and trypan blue staining. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104081.	3.1	9
24	Nanomechanical properties of enucleated cells: contribution of the nucleus to the passive cell mechanics. <i>Journal of Nanobiotechnology</i> , 2020, 18, 134.	9.1	11
25	Multicomponent Non-Woven Fibrous Mats with Balanced Processing and Functional Properties. <i>Polymers</i> , 2020, 12, 1911.	4.5	5
26	Viscoelasticity in simple indentation-cycle experiments: a computational study. <i>Scientific Reports</i> , 2020, 10, 13302.	3.3	13
27	Cysteine Cathepsins Inhibition Affects Their Expression and Human Renal Cancer Cell Phenotype. <i>Cancers</i> , 2020, 12, 1310.	3.7	17
28	The Mechanical Properties, Secondary Structure, and Osteogenic Activity of Photopolymerized Fibroin. <i>Polymers</i> , 2020, 12, 646.	4.5	4
29	Chitosan- <i>g</i> -oligo(L,L-lactide) Copolymer Hydrogel Potential for Neural Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , 2020, 26, 953-963.	3.1	18
30	Digging deeper: structural background of PEGylated fibrin gels in cell migration and lumenogenesis. <i>RSC Advances</i> , 2020, 10, 4190-4200.	3.6	25
31	Beyond 2D: effects of photobiomodulation in 3D tissue-like systems. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	11
32	Fibrin-based Bioinks: New Tricks from an Old Dog. <i>International Journal of Bioprinting</i> , 2020, 6, 269.	3.4	25
33	Viscoelastic mapping of cells based on fast force volume and PeakForce Tapping. <i>Soft Matter</i> , 2019, 15, 5455-5463.	2.7	50
34	Cell Culture and Coculture for Oncological Research in Appropriate Microenvironments. <i>Current Protocols in Chemical Biology</i> , 2019, 11, e65.	1.7	10
35	Anisotropy vs isotropy in living cell indentation with AFM. <i>Scientific Reports</i> , 2019, 9, 5757.	3.3	54
36	Anisotropic Mechanical Properties of Living Cells Revealed by Integrated Spinning Disk Confocal and Atomic Force Microscopy. <i>Biophysical Journal</i> , 2018, 114, 513a.	0.5	0

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37	Mapping heterogeneity of cellular mechanics by multi-harmonic atomic force microscopy. Nature Protocols, 2018, 13, 2200-2216.	12.0	43
38	Measuring nanoscale viscoelastic parameters of cells directly from AFM force-displacement curves. Scientific Reports, 2017, 7, 1541.	3.3	174
39	Application of the Johnson-Kendall-Roberts model in AFM-based mechanical measurements on cells and gel.. Colloids and Surfaces B: Biointerfaces, 2015, 134, 131-139.	5.0	57
40	Distinct impact of targeted actin cytoskeleton reorganization on mechanical properties of normal and malignant cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 3117-3125.	4.1	67
41	Mechanical properties of fibroblasts depend on level of cancer transformation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1013-1019.	4.1	62
42	The effects of confluency on cell mechanical properties. Journal of Biomechanics, 2013, 46, 1081-1087.	2.1	41
43	Cell attachment on poly(3-hydroxybutyrate)-poly(ethylene glycol) copolymer produced by Azotobacter chroococcum 7B. BMC Biochemistry, 2013, 14, 12.	4.4	49
44	The Terpolymer Produced by Azotobacter Chroococcum 7B: Effect of Surface Properties on Cell Attachment. PLoS ONE, 2013, 8, e57200.	2.5	32
45	Atomic force microscopy as a tool to study <i>Xenopus laevis</i> embryo. Journal of Physics: Conference Series, 2012, 345, 012040.	0.4	1
46	Inactivation of Formin Affects Elastic Properties of Eucaryotic Cells. Microscopy and Microanalysis, 2012, 18, 164-165.	0.4	0
47	Atomic force microscopy of animal cells: Advances and prospects. Biophysics (Russian Federation), 2011, 56, 257-267.	0.7	12
48	Atomic force microscopy of living and fixed <i>Xenopus laevis</i> embryos. Micron, 2011, 42, 840-852.	2.2	9
49	Atomic Force Microscopy Study of the Arrangement and Mechanical Properties of Astrocytic Cytoskeleton in Growth Medium. Acta Naturae, 2011, 3, 93-99.	1.7	14
50	Mechanical Enhancement and Kinetics Regulation of Fmoc-Diphenylalanine Hydrogels by Thioflavin T. Angewandte Chemie, 0, , .	2.0	3