Andreea Trache

List of Publications by Year
in descending order

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Version: 2024-02-01

39 papers	881 citations	471509 17 h-index	526287 27 g-index
42 all docs	42 docs citations	42 times ranked	1190 citing authors

#	Article	IF	Citations
1	Mechanical properties of the interaction between fibronectin and Î±5Î²1-integrin on vascular smooth muscle cells studied using atomic force microscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2526-H2535.	3.2	132
2	Histamine Effects on Endothelial Cell Fibronectin Interaction Studied by Atomic Force Microscopy. Biophysical Journal, 2005, 89, 2888-2898.	0.5	69
3	Time-dependent Changes in Smooth Muscle Cell Stiffness and Focal Adhesion Area in Response to Cyclic Equibiaxial Stretch. Annals of Biomedical Engineering, 2008, 36, 369-380.	2.5	59
4	Quantification and Confocal Imaging of Protein Specific Molecularly Imprinted Polymers. Biomacromolecules, 2006, 7, 2560-2564.	5.4	53
5	Integrins and Regulation of the Microcirculation: From Arterioles to Molecular Studies using Atomic Force Microscopy. Microcirculation, 2005, 12, 99-112.	1.8	49
6	Atomic force-multi-optical imaging integrated microscope for monitoring molecular dynamics in live cells. Journal of Biomedical Optics, 2005, 10, 064023.	2.6	47
7	Nck enables directional cell migration through the coordination of polarized membrane protrusion with adhesion dynamics. Journal of Cell Science, 2013, 126, 1637-49.	2.0	43
8	Integrated microscopy for real-time imaging of mechanotransduction studies in live cells. Journal of Biomedical Optics, 2009, 14, 034024.	2.6	42
9	Regional Atherosclerotic Plaque Properties in ApoEâ€“/â€“ Mice Quantified by Atomic Force, Immunofluorescence, and Light Microscopy. Journal of Vascular Research, 2011, 48, 495-504.	1.4	42
10	RhoA-induced cytoskeletal tension controls adaptive cellular remodeling to mechanical signaling. Integrative Biology (United Kingdom), 2012, 4, 615-627.	1.3	40
11	Smooth muscle hyperplasia due to loss of smooth muscle Î±-actin is driven by activation of focal adhesion kinase, altered p53 localization and increased levels of platelet-derived growth factor receptor-Î². Human Molecular Genetics, 2013, 22, 3123-3137.	2.9	37
12	Atomic Force Microscopy (AFM). Current Protocols in Microbiology, 2008, 8, Unit 2C.2.	6.5	36
13	Use of surface-enhanced Raman spectroscopy for the detection of human integrins. Journal of Biomedical Optics, 2006, 11, 024004.	2.6	33
14	Extracellular matrix effect on RhoA signaling modulation in vascular smooth muscle cells. Experimental Cell Research, 2010, 316, 2833-2848.	2.6	27
15	Vascular Smooth Muscle Contractile Function Declines With Age in Skeletal Muscle Feed Arteries. Frontiers in Physiology, 2018, 9, 856.	2.8	27
16	Total Internal Reflection Fluorescence (TIRF) Microscopy. Current Protocols in Microbiology, 2008, 10, Unit 2A.2.1-2A.2.22.	6.5	26
17	Selective regulation of cytoskeletal tension and cellâ€“matrix adhesion by RhoA and Src. Integrative Biology (United Kingdom), 2014, 6, 743.	1.3	22
18	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. PLoS Computational Biology, 2020, 16, e1007693.	3.2	15

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19	Mg²⁺modulates integrinâ€“extracellular matrix interaction in vascular smooth muscle cells studied by atomic force microscopy. Journal of Molecular Recognition, 2010, 23, 316-321.	2.1	14
20	Live Cell Response to Mechanical Stimulation Studied by Integrated Optical and Atomic Force Microscopy. Journal of Visualized Experiments, 2010, , .	0.3	14
21	Loss of smooth muscle Î±-actin effects on mechanosensing and cellâ€“matrix adhesions. Experimental Biology and Medicine, 2020, 245, 374-384.	2.4	13
22	Measurements of the Cross-Bridge Attachment/Detachment Process within Intact Sarcomeres by Surface Plasmon Resonance. Biochemistry, 2001, 40, 13915-13924.	2.5	11
23	Vascular smooth muscle stiffness and its role in aging. Current Topics in Membranes, 2020, 86, 217-253.	0.9	7
24	Short-duration increases in intraluminal pressure improve vasoconstrictor responses in aged skeletal muscle feed arteries. European Journal of Applied Physiology, 2016, 116, 931-937.	2.5	6
25	Applications of Atomic Force Microscopy for Adhesion Force Measurements in Mechanotransduction. Methods in Molecular Biology, 2018, 1814, 515-528.	0.9	5
26	Age-Associated Dysregulation of Integrin Function in Vascular Smooth Muscle. Frontiers in Physiology, 0, 13, .	2.8	5
27	Short-term increases in pressure and shear stress attenuate age-related declines in endothelial function in skeletal muscle feed arteries. European Journal of Applied Physiology, 2016, 116, 1305-1311.	2.5	4
28	Importance of mechanical signals in promoting exercise-induced improvements in vasomotor function of aged skeletal muscle resistance arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H602-H609.	3.2	2
29	Interferential filter design with continuously variable refractive index. , 1998, , .		1
30	Solutions of single-layer synthesis with symmetrical three-layer periods. , 1998, , .		0
31	Effects of Aging on Integrinâ€Mediated Vascular Smooth Muscle Contractility in Soleus Muscle Feed Arteries. FASEB Journal, 2021, 35, .	0.5	0
32	Integrated Imaging Techniques Applied to Live Cell Biophysics. , 2007, , .		0
33	Effect of aging on Rhoâ€kinase activity and vascular smooth muscle contractility in skeletal muscle resistance arteries. FASEB Journal, 2018, 32, 705.8.	0.5	0
34	Integrinâ€mediated Vasoconstrictor Function Declines with Age in Skeletal Muscle Resistance Arteries. FASEB Journal, 2019, 33, 518.4.	0.5	0
35	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
36	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0

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37	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
38	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
39	Aging Alters Integrinâ€mediated Vascular Smooth Muscle Function in Soleus Feed Arteries. FASEB Journal, 2022, 36, .	0.5	0