Alisa Clyne

List of Publications by Year in Descending Order

24 papers	907 citations	12 h-index	25 g-index
25 ext. papers	1,014 ext. citations	4.9 avg, IF	4.74 L-index

#	Paper	IF	Citations
24	Laminar Flow on Endothelial Cells Suppresses eNOS O-GlcNAcylation to Promote eNOS Activity. *Circulation Research*, **2021**, 129, 1054-1066	15.7	3
23	Sex differences in the blood-brain barrier and neurodegenerative diseases. *APL Bioengineering*, **2021**, 5, 011509	6.6	19
22	C Metabolic Flux Analysis Indicates Endothelial Cells Attenuate Metabolic Perturbations by Modulating TCA Activity. *Metabolites*, **2021**, 11,	5.6	2
21	A simple method to align cells on 3D hydrogels using 3D printed molds. *Biomedical Engineering Advances*, **2021**, 1, 100001		2
20	Endothelial response to glucose: dysfunction, metabolism, and transport. *Biochemical Society Transactions*, **2021**, 49, 313-325	5.1	5
19	Stiff Substrates Enhance Endothelial Oxidative Stress in Response to Protein Kinase C Activation. *Applied Bionics and Biomechanics*, **2019**, 2019, 6578492	1.6	6
18	Biofabrication strategies for creating microvascular complexity. *Biofabrication*, **2019**, 11, 032001	10.5	18
17	Vascular Endothelial-Breast Epithelial Cell Coculture Model Created from 3D Cell Structures. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2999-3006	5.5	6
16	Fluid Shear Stress and Fibroblast Growth Factor-2 Increase Endothelial Cell-Associated Vitronectin. *Applied Bionics and Biomechanics*, **2017**, 2017, 9040161	1.6	3
15	Endothelial directed collective migration depends on substrate stiffness via localized myosin contractility and cell-matrix interactions. *Journal of Biomechanics*, **2016**, 49, 1369-1380	2.9	28
14	An inverted dielectrophoretic device for analysis of attached single cell mechanics. *Lab on A Chip*, **2016**, 16, 561-73	7.2	20
13	Fibroblast growth factor-2 did not restore plasminogen system activity in endothelial cells on glycated collagen. *Biochemistry and Biophysics Reports*, **2015**, 4, 104-110	2.2	1
12	Glycated collagen decreased endothelial cell fibronectin alignment in response to cyclic stretch via interruption of actin alignment. *Journal of Biomechanical Engineering*, **2014**, 136, 101010	2.1	9
11	A computational model of fibroblast growth factor-2 binding to endothelial cells under fluid flow. *Annals of Biomedical Engineering*, **2013**, 41, 154-71	4.7	8
10	Glycated collagen and altered glucose increase endothelial cell adhesion strength. *Journal of Cellular Physiology*, **2013**, 228, 1727-36	7	12
9	Hypo- and hyperglycemia impair endothelial cell actin alignment and nitric oxide synthase activation in response to shear stress. *PLoS ONE*, **2013**, 8, e66176	3.7	44
8	Dextran and polymer polyethylene glycol (PEG) coating reduce both 5 and 30 nm iron oxide nanoparticle cytotoxicity in 2D and 3D cell culture. *International Journal of Molecular Sciences*, **2012**, 13, 5554-70	6.3	217

List of Publications

7	A simplified implementation of edge detection in MATLAB is faster and more sensitive than fast fourier transform for actin fiber alignment quantification. *Microscopy and Microanalysis*, **2011**, 17, 156-66	0.5	18
6	Glycated Collagen Impairs Endothelial Cell Response to Cyclic Stretch. *Cellular and Molecular Bioengineering*, **2011**, 4, 220-230	3.9	9
5	Hydroxyl Radical and Hydrogen Peroxide are Primarily Responsible for Dielectric Barrier Discharge Plasma-Induced Angiogenesis. *Plasma Processes and Polymers*, **2011**, 8, 1154-1164	3.4	66
4	Superparamagnetic iron oxide nanoparticles change endothelial cell morphology and mechanics via reactive oxygen species formation. *Journal of Biomedical Materials Research - Part A*, **2011**, 96, 186-95	5.4	131
3	Glycated collagen alters endothelial cell actin alignment and nitric oxide release in response to fluid shear stress. *Journal of Biomechanics*, **2011**, 44, 1927-35	2.9	43
2	Endothelial cell proliferation is enhanced by low dose non-thermal plasma through fibroblast growth factor-2 release. *Annals of Biomedical Engineering*, **2010**, 38, 748-57	4.7	222
1	Elevated fibroblast growth factor-2 increases tumor necrosis factor-alpha induced endothelial cell death in high glucose. *Journal of Cellular Physiology*, **2008**, 217, 86-92	7	15