

Andrew P Voorhees

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

962
citations

623734

14
h-index

794594

19
g-index

27
all docs

27
docs citations

27
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix Metalloproteinase-28 Deletion Exacerbates Cardiac Dysfunction and Rupture After Myocardial Infarction in Mice by Inhibiting M2 Macrophage Activation. <i>Circulation Research</i> , 2013, 112, 675-688.	4.5	187
2	Biomechanics of Cardiac Function. , 2015, 5, 1623-1644.		67
3	Myocardial Infarction Superimposed on Aging: MMP-9 Deletion Promotes M2 Macrophage Polarization. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 475-483.	3.6	62
4	Cerebrospinal Fluid Pressure: Revisiting Factors Influencing Optic Nerve Head Biomechanics. , 2018, 59, 154.		61
5	Building a better infarct: Modulation of collagen cross-linking to increase infarct stiffness and reduce left ventricular dilation post-myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 229-239.	1.9	59
6	Cardiac aging is initiated by matrix metalloproteinase-9-mediated endothelial dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H1398-H1407.	3.2	51
7	Effects of collagen microstructure and material properties on the deformation of the neural tissues of the lamina cribrosa. <i>Acta Biomaterialia</i> , 2017, 58, 278-290.	8.3	50
8	Complex variable methods for shape sensitivity of finite element models. <i>Finite Elements in Analysis and Design</i> , 2011, 47, 1146-1156.	3.2	47
9	Polarized light microscopy for 3-dimensional mapping of collagen fiber architecture in ocular tissues. <i>Journal of Biophotonics</i> , 2018, 11, e201700356.	2.3	46
10	Lamina Cribrosa Pore Shape and Size as Predictors of Neural Tissue Mechanical Insult. , 2017, 58, 5336.		40
11	Formalin Fixation and Cryosectioning Cause Only Minimal Changes in Shape or Size of Ocular Tissues. <i>Scientific Reports</i> , 2017, 7, 12065.	3.3	36
12	Cardiac function of the naked mole-rat: ecophysiological responses to working underground. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H730-H737.	3.2	32
13	A model to determine the effect of collagen fiber alignment on heart function post myocardial infarction. <i>Theoretical Biology and Medical Modelling</i> , 2014, 11, 6.	2.1	30
14	Microstructural Crimp of the Lamina Cribrosa and Peripapillary Sclera Collagen Fibers. , 2017, 58, 3378-3388.		27
15	Whole-globe biomechanics using high-field MRI. <i>Experimental Eye Research</i> , 2017, 160, 85-95.	2.6	26
16	Peripapillary sclera architecture revisited: A tangential fiber model and its biomechanical implications. <i>Acta Biomaterialia</i> , 2018, 79, 113-122.	8.3	24
17	Fatigue sensitivity analysis using complex variable methods. <i>International Journal of Fatigue</i> , 2012, 40, 61-73.	5.7	19
18	Role of radially aligned scleral collagen fibers in optic nerve head biomechanics. <i>Experimental Eye Research</i> , 2020, 199, 108188.	2.6	16

#	ARTICLE	IF	CITATIONS
19	Bioreactor design for cornea tissue engineering: Material-cell interactions. Acta Biomaterialia, 2007, 3, 1041-1049.	8.3	15
20	Mathematical modeling of left ventricular dimensional changes in mice during aging. BMC Systems Biology, 2012, 6, S10.	3.0	15
21	So-Called Lamina Cribrosa Defects May Mitigate IOP-Induced Neural Tissue Insult. , 2020, 61, 15.		14
22	Lamina Cribrosa Capillaries Straighten as Intraocular Pressure Increases. , 2020, 61, 2.		12
23	Artery Remodeling Under Axial Twist in Three Days Organ Culture. Annals of Biomedical Engineering, 2015, 43, 1738-1747.	2.5	10
24	Seeing the Hidden Lamina: Effects of Exsanguination on the Optic Nerve Head. , 2018, 59, 2564.		7
25	Lamina cribrosa vessel and collagen beam networks are distinct. Experimental Eye Research, 2022, 215, 108916.	2.6	7
26	Eye-specific 3D modeling of factors influencing oxygen concentration in the lamina cribrosa. Experimental Eye Research, 2022, 220, 109105.	2.6	1