Bryn L Brazile

List of Publications by Year
in descending order

27	502	840776 11	794594 19
papers	citations	h-index	g-index

27	27	27	604
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lamina cribrosa vessel and collagen beam networks are distinct. Experimental Eye Research, 2022, 215, 108916.	2.6	7
2	A Workflow for 3D Reconstruction and Quantification of the Monkey Optic Nerve Head Vascular Network. Journal of Biomechanical Engineering, 2022, , .	1.3	0
3	Eye-specific 3D modeling of factors influencing oxygen concentration in the lamina cribrosa. Experimental Eye Research, 2022, 220, 109105.	2.6	1
4	Instant polarized light microscopy for imaging collagen microarchitecture and dynamics. Journal of Biophotonics, 2021, 14, e202000326.	2.3	16
5	Biomechanical properties of acellular scar ECM during the acute to chronic stages of myocardial infarction. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104342.	3.1	10
6	So-Called Lamina Cribrosa Defects May Mitigate IOP-Induced Neural Tissue Insult. , 2020, 61, 15.		14
7	Lamina Cribrosa Capillaries Straighten as Intraocular Pressure Increases. , 2020, 61, 2.		12
8	Collagen fiber interweaving is central to sclera stiffness. Acta Biomaterialia, 2020, 113, 429-437.	8.3	36
9	Heart valve tissueâ€derived hydrogels: Preparation and characterization of mitral valve chordae, aortic valve, and mitral valve gels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1732-1740.	3.4	12
10	Polarized light microscopy for 3â€dimensional mapping of collagen fiber architecture in ocular tissues. Journal of Biophotonics, 2018, 11, e201700356.	2.3	46
11	Crimp around the globe; patterns of collagen crimp across the corneoscleral shell. Experimental Eye Research, 2018, 172, 159-170.	2.6	44
12	Thin Lamina Cribrosa Beams Have Different Collagen Microstructure Than Thick Beams. , 2018, 59, 4653.		17
13	Quantitative Analysis of Tissue Damage Evolution in Porcine Liver With Interrupted Mechanical Testing Under Tension, Compression, and Shear. Journal of Biomechanical Engineering, 2018, 140, .	1.3	10
14	Spatial Patterns and Age-Related Changes of the Collagen Crimp in the Human Cornea and Sclera. , 2018, 59, 2987.		53
15	Structured polarized light microscopy for collagen fiber structure and orientation quantification in thick ocular tissues. Journal of Biomedical Optics, 2018, 23, 1.	2.6	20
16	Cardiac findings in Quarter Horses with heritable equine regional dermal asthenia. Journal of the American Veterinary Medical Association, 2017, 250, 538-547.	0.5	2
17	Characterisation of the mechanical properties of infarcted myocardium in the rat under biaxial tension and uniaxial compression. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 252-264.	3.1	33
18	Infarcted rat myocardium: Data from biaxial tensile and uniaxial compressive testing and analysis of collagen fibre orientation. Data in Brief, 2016, 8, 1338-1343.	1.0	3

#	Article	IF	Citations
19	EXPERIMENTAL OBSERVATION OF HIGH STRAIN RATE RESPONSES OF PORCINE BRAIN, LIVER, AND TENDON. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650032.	0.7	6
20	Characterization of the Unique Viscoelastic Properties of the Mitral Valve Anterior Leaflet. FASEB Journal, 2016, 30, 558.1.	0.5	0
21	Establishing Early Functional Perfusion and Structure in Tissue Engineered Cardiac Constructs. Critical Reviews in Biomedical Engineering, 2015, 43, 455-471.	0.9	6
22	Experimental Evidence of Mechanical Isotropy in Porcine Lung Parenchyma. Materials, 2015, 8, 2454-2466.	2.9	11
23	Investigating the Potential of Amnion-Based Scaffolds as a Barrier Membrane for Guided Bone Regeneration. Langmuir, 2015, 31, 8642-8653.	3.5	44
24	Functional Heart Valve Scaffolds Obtained by Complete Decellularization of Porcine Aortic Roots in a Novel Differential Pressure Gradient Perfusion System. Tissue Engineering - Part C: Methods, 2015, 21, 1284-1296.	2.1	43
25	Mayerâ€“Rokitanskyâ€“KÃ¼sterâ€“Hauser (MRKH) syndrome: A historical perspective. Gene, 2015, 555, 33-40.	2.2	37
26	On the Bending Properties of Porcine Mitral, Tricuspid, Aortic, and Pulmonary Valve Leaflets. Journal of Long-Term Effects of Medical Implants, 2015, 25, 41-53.	0.7	15
27	3D Printingâ€“Assisted Rapid Prototyping and Optimization: Development of a Novel Small Intestinal Cannula for Equine Research. 3D Printing and Additive Manufacturing, 2014, 1, 104-106.	2.9	4