

# Bryn L Brazile

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

502  
citations

840776

11  
h-index

794594

19  
g-index

27  
all docs

27  
docs citations

27  
times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Patterns and Age-Related Changes of the Collagen Crimp in the Human Cornea and Sclera. , 2018, 59, 2987.		53
2	Polarized light microscopy for 3-dimensional mapping of collagen fiber architecture in ocular tissues. Journal of Biophotonics, 2018, 11, e201700356.	2.3	46
3	Investigating the Potential of Amnion-Based Scaffolds as a Barrier Membrane for Guided Bone Regeneration. Langmuir, 2015, 31, 8642-8653.	3.5	44
4	Crimp around the globe; patterns of collagen crimp across the corneoscleral shell. Experimental Eye Research, 2018, 172, 159-170.	2.6	44
5	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
6	Mayer-Rokitansky-Kuster-Hauser (MRKH) syndrome: A historical perspective. Gene, 2015, 555, 33-40.	2.2	37
7	Collagen fiber interweaving is central to sclera stiffness. Acta Biomaterialia, 2020, 113, 429-437.	8.3	36
8	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
9	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
10	Thin Lamina Cribrosa Beams Have Different Collagen Microstructure Than Thick Beams. , 2018, 59, 4653.		17
11	Instant polarized light microscopy for imaging collagen microarchitecture and dynamics. Journal of Biophotonics, 2021, 14, e202000326.	2.3	16
12	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
13	So-Called Lamina Cribrosa Defects May Mitigate IOP-Induced Neural Tissue Insult. , 2020, 61, 15.		14
14	Heart valve tissue-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
15	Lamina Cribrosa Capillaries Straighten as Intraocular Pressure Increases. , 2020, 61, 2.		12
16	Experimental Evidence of Mechanical Isotropy in Porcine Lung Parenchyma. Materials, 2015, 8, 2454-2466.	2.9	11
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Lamina cribrosa vessel and collagen beam networks are distinct. <i>Experimental Eye Research</i> , 2022, 215, 108916.	2.6	7
20	Establishing Early Functional Perfusion and Structure in Tissue Engineered Cardiac Constructs. <i>Critical Reviews in Biomedical Engineering</i> , 2015, 43, 455-471.	0.9	6
21	EXPERIMENTAL OBSERVATION OF HIGH STRAIN RATE RESPONSES OF PORCINE BRAIN, LIVER, AND TENDON. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650032.	0.7	6
22	3D Printing Assisted Rapid Prototyping and Optimization: Development of a Novel Small Intestinal Cannula for Equine Research. <i>3D Printing and Additive Manufacturing</i> , 2014, 1, 104-106.	2.9	4
23	Infarcted rat myocardium: Data from biaxial tensile and uniaxial compressive testing and analysis of collagen fibre orientation. <i>Data in Brief</i> , 2016, 8, 1338-1343.	1.0	3
24	Cardiac findings in Quarter Horses with heritable equine regional dermal asthenia. <i>Journal of the American Veterinary Medical Association</i> , 2017, 250, 538-547.	0.5	2
25	Eye-specific 3D modeling of factors influencing oxygen concentration in the lamina cribrosa. <i>Experimental Eye Research</i> , 2022, 220, 109105.	2.6	1
26	Characterization of the Unique Viscoelastic Properties of the Mitral Valve Anterior Leaflet. <i>FASEB Journal</i> , 2016, 30, 558.1.	0.5	0
27	A Workflow for 3D Reconstruction and Quantification of the Monkey Optic Nerve Head Vascular Network. <i>Journal of Biomechanical Engineering</i> , 2022, , .	1.3	0