Robert Gaul

List of Publications by Year
in descending order

10 papers	179 citations	1307594 7 h-index	1372567 10 g-index
10 all docs	10 docs citations	10 times ranked	184 citing authors

#	Article	IF	Citations
1	Collagen fibre orientation and dispersion govern ultimate tensile strength, stiffness and the fatigue performance of bovine pericardium. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 54-60.	3.1	41
2	Collagen fibre characterisation in arterial tissue under load using SALS. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 359-368.	3.1	39
3	An investigation into the critical role of fibre orientation in the ultimate tensile strength and stiffness of human carotid plaque caps. Acta Biomaterialia, 2021, 124, 291-300.	8.3	22
4	Quantifying the ultrastructure of carotid arteries using high-resolution micro-diffusion tensor imagingâ€"comparison of intact versus open cut tissue. Physics in Medicine and Biology, 2017, 62, 8850-8868.	3.0	17
5	Strain mediated enzymatic degradation of arterial tissue: Insights into the role of the non-collagenous tissue matrix and collagen crimp. Acta Biomaterialia, 2018, 77, 301-310.	8.3	17
6	Changes in inferior vena cava area represent a more sensitive metric than changes in filling pressures during experimental manipulation of intravascular volume and tone. European Journal of Heart Failure, 2022, 24, 455-462.	7.1	16
7	The use of small angle light scattering in assessing strain induced collagen degradation in arterial tissue ex vivo. Journal of Biomechanics, 2018, 81, 155-160.	2.1	8
8	Mechanical Characterization and Modeling of the Porcine Cerebral Meninges. Frontiers in Bioengineering and Biotechnology, 2020, 8, 801.	4.1	8
9	Pressure-induced collagen degradation in arterial tissue as a potential mechanism for degenerative arterial disease progression. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103771.	3.1	7
10	Exploring arterial tissue microstructural organization using non-Gaussian diffusion magnetic resonance schemes. Scientific Reports, 2021, 11, 22247.	3.3	4