

# Robert Gaul

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/810464/publications.pdf>

Version: 2024-02-01

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