

Afshin Afshin Anssari-Benam

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Modelling the Inflation and Elastic Instabilities of Rubber-Like Spherical and Cylindrical Shells Using a New Generalised Neo-Hookean Strain Energy Function. <i>Journal of Elasticity</i> , 2022, 151, 15-45.	1.9	29
2	Extension and torsion of rubber-like hollow and solid circular cylinders for incompressible isotropic hyperelastic materials with limiting chain extensibility. <i>European Journal of Mechanics, A/Solids</i> , 2022, 92, 104443.	3.7	22
3	ASSESSMENT OF A NEW ISOTROPIC HYPERELASTIC CONSTITUTIVE MODEL FOR A RANGE OF RUBBERLIKE MATERIALS AND DEFORMATIONS. <i>Rubber Chemistry and Technology</i> , 2022, 95, 200-217.	1.2	13
4	Torsional instability of incompressible hyperelastic rubber-like solid circular cylinders with limiting chain extensibility. <i>International Journal of Solids and Structures</i> , 2022, 238, 111396.	2.7	5
5	New results in the theory of plane strain flexure of incompressible isotropic hyperelastic materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	2.1	4
6	The Generalised Mooney Space for Modelling the Response of Rubber-Like Materials. <i>Journal of Elasticity</i> , 2022, 151, 127-141.	1.9	6
7	A three-parameter structurally motivated robust constitutive model for isotropic incompressible unfilled and filled rubber-like materials. <i>European Journal of Mechanics, A/Solids</i> , 2022, 95, 104605.	3.7	18
8	New constitutive models for the finite deformation of isotropic compressible elastomers. <i>Mechanics of Materials</i> , 2022, 172, 104403.	3.2	6
9	Modelling the rate-dependency of the mechanical behaviour of the aortic heart valve: An experimentally guided theoretical framework. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 134, 105341.	3.1	2
10	A generalised neo-Hookean strain energy function for application to the finite deformation of elastomers. <i>International Journal of Non-Linear Mechanics</i> , 2021, 128, 103626.	2.6	59
11	On a new class of non-Gaussian molecular-based constitutive models with limiting chain extensibility for incompressible rubber-like materials. <i>Mathematics and Mechanics of Solids</i> , 2021, 26, 1660-1674.	2.4	23
12	On the central role of the invariant I_2 in nonlinear elasticity. <i>International Journal of Engineering Science</i> , 2021, 163, 103486.	5.0	39
13	On Modelling Simple Shear for Isotropic Incompressible Rubber-Like Materials. <i>Journal of Elasticity</i> , 2021, 147, 83-111.	1.9	17
14	Rate-dependent mechanical behaviour of semilunar valves under biaxial deformation: From quasi-static to physiological loading rates. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103645.	3.1	7
15	Specialized Strain Energy Functions for Modeling the Contribution of the Collagen Network (Waniso) to the Deformation of Soft Tissues. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	5
16	Insights into the micromechanics of stress-relaxation and creep behaviours in the aortic valve. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 230-245.	3.1	12
17	Rate-dependency of the mechanical behaviour of semilunar heart valves under biaxial deformation. <i>Acta Biomaterialia</i> , 2019, 88, 120-130.	8.3	18
18	Modeling the Deformation of the Elastin Network in the Aortic Valve. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	30

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19	A transverse isotropic constitutive model for the aortic valve tissue incorporating rate-dependency and fibre dispersion: Application to biaxial deformation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 85, 80-93.	3.1	14
20	A transverse isotropic viscoelastic constitutive model for aortic valve tissue. <i>Royal Society Open Science</i> , 2017, 4, 160585.	2.4	23
21	Evaluation of bioprosthetic heart valve failure using a matrix-fibril shear stress transfer approach. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 42.	3.6	6
22	Unified viscoelasticity: Applying discrete element models to soft tissues with two characteristic times. <i>Journal of Biomechanics</i> , 2015, 48, 3128-3134.	2.1	8
23	Is the time-dependent behaviour of the aortic valve intrinsically quasi-linear?. <i>Mechanics of Time-Dependent Materials</i> , 2014, 18, 339-348.	4.4	6
24	Atherosclerotic plaques: Is endothelial shear stress the only factor?. <i>Medical Hypotheses</i> , 2013, 81, 235-239.	1.5	7
25	Strain Transfer Through the Aortic Valve. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 061003.	1.3	17
26	On the specimen length dependency of tensile mechanical properties in soft tissues: Gripping effects and the characteristic decay length. <i>Journal of Biomechanics</i> , 2012, 45, 2481-2482.	2.1	19
27	Anisotropic time-dependant behaviour of the aortic valve. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1603-1610.	3.1	25
28	A combined experimental and modelling approach to aortic valve viscoelasticity in tensile deformation. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 253-262.	3.6	49
29	Thermodynamic effects of linear dissipative small deformations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 941-947.	3.6	13