

Alan D Freed

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

2,828
citations

16
h-index

49
g-index

49
ext. papers

3,182
ext. citations

3.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
44	Coordinate indexing: On the use of Eulerian and Lagrangian Laplace stretches. <i>Applications in Engineering Science</i> , 2021 , 5, 100029	0.4	2
43	Application of QR framework in modeling the constitutive behavior of porcine coronary sinus tissue. <i>Mechanics of Soft Materials</i> , 2021 , 3, 1	2.1	0
42	A versatile biaxial testing platform for soft tissues. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 114, 104144	4.1	2
41	Application of the Gram-Schmidt factorization of the deformation gradient to a cone and plate rheometer. <i>Physics of Fluids</i> , 2021 , 33, 017113	4.4	0
40	A constitutive model for elastic-plastic materials using scalar conjugate stress/strain base pairs. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 155, 104535	5	1
39	A simple and practical representation of compatibility condition derived using a QR decomposition of the deformation gradient. <i>Acta Mechanica</i> , 2020 , 231, 3289-3304	2.1	5
38	Characterizing the non-linear mechanical behavior of native and biomimetic engineered tissues in 1D with physically meaningful parameters. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103509	4.1	1
37	Characterizing geometrically necessary dislocations using an elastic-plastic decomposition of Laplace stretch. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020 , 71, 1	1.6	1
36	FE vibration analyses of novel conforming meta-structures and standard lattices for simple bricks and a topology-optimized aerodynamic bracket. <i>Scientific Reports</i> , 2020 , 10, 21484	4.9	
35	Laplace stretch: Eulerian and Lagrangian formulations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020 , 71, 1	1.6	4
34	Anisotropic conjugate stress/strain base pair approach for laminates undergoing large deformations. <i>Materialia</i> , 2019 , 6, 100318	3.2	2
33	A decomposition of Laplace stretch with applications in inelasticity. <i>Acta Mechanica</i> , 2019 , 230, 3423-3429	2.1	12
32	On the use of convected coordinate systems in the mechanics of continuous media derived from a QR factorization of F. <i>International Journal of Engineering Science</i> , 2018 , 127, 145-161	5.7	12
31	Conjugate stress/strain base pairs for planar analysis of biological tissues. <i>Journal of Mechanics of Materials and Structures</i> , 2017 , 12, 219-247	1.2	16
30	Stress/strain basis pairs for anisotropic materials. <i>Composites Part B: Engineering</i> , 2017 , 120, 152-158	10	8
29	A promising approach for modeling biological fibers. <i>Acta Mechanica</i> , 2016 , 227, 1609-1619	2.1	27
28	A viscoelastic model for describing the response of biological fibers. <i>Acta Mechanica</i> , 2016 , 227, 3367-3380	2.1	3

27	Viscoelasticity. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 , 209-275	0.8	
26	Soft Solids. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 ,	0.8	25
25	Strain. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 , 47-75	0.8	1
24	Implicit Elasticity. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 , 161-208	0.8	
23	Deformation. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 , 23-46	0.8	
22	Explicit Elasticity. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2014 , 109-159	0.8	
21	An Implicit Elastic Theory for Lung Parenchyma. <i>International Journal of Engineering Science</i> , 2013 , 62, 31-47	5.7	35
20	Hypo-elastic model for lung parenchyma. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 557-73.8	3.8	16
19	Hypoelastic soft tissues. Part I: Theory. <i>Acta Mechanica</i> , 2010 , 213, 189-204	2.1	13
18	Hypoelastic Soft Tissues: Part II: In-Plane Biaxial Experiments. <i>Acta Mechanica</i> , 2010 , 213, 205-222	2.1	16
17	Anisotropy in hypoelastic soft-tissue mechanics, II: Simple extensional experiments. <i>Journal of Mechanics of Materials and Structures</i> , 2009 , 4, 1005-1025	1.2	13
16	Anisotropy in hypoelastic soft-tissue mechanics, I: Theory. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 911-928	1.2	24
15	Maturation and adaptive modulation of left ventricular torsional biomechanics: Doppler tissue imaging observation from infancy to adulthood. <i>Circulation</i> , 2006 , 113, 2534-41	16.7	138
14	Elastic model for crimped collagen fibrils. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 587-93	2.1	129
13	Fractional order viscoelasticity of the aortic valve cusp: an alternative to quasilinear viscoelasticity. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 700-8	2.1	67
12	Inverse parameter fitting of biological tissues: a response surface approach. <i>Annals of Biomedical Engineering</i> , 2005 , 33, 1819-30	4.7	22
11	Invariant formulation for dispersed transverse isotropy in aortic heart valves: an efficient means for modeling fiber splay. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005 , 4, 100-17	3.8	106
10	Transverse-Isotropic Elastic and Viscoelastic Solids. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2004 , 126, 38-44	1.8	2

9	Detailed Error Analysis for a Fractional Adams Method. <i>Numerical Algorithms</i> , 2004 , 36, 31-52	2.1	561
8	A Predictor-Corrector Approach for the Numerical Solution of Fractional Differential Equations. <i>Nonlinear Dynamics</i> , 2002 , 29, 3-22	5	1417
7	Renewal creep theory. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995 , 26, 829-843	2.3	4
6	Natural Strain. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1995 , 117, 379-385	1.8	43
5	Viscoplastic Model Development With an Eye Toward Characterization. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1995 , 117, 8-13	1.8	14
4	Thermoviscoplastic analysis of fibrous periodic composites by the use of triangular subvolumes. <i>Composites Science and Technology</i> , 1994 , 50, 71-84	8.6	19
3	Viscoplasticity with creep and plasticity bounds. <i>International Journal of Plasticity</i> , 1993 , 9, 213-242	7.6	65
2	Stirling Engine - Approach for Long-Term Durability Assessment 1992 ,		1
1	Extracting material parameters of silicone elastomers under biaxial tensile tests using virtual fields method and investigating the effect of missing deformation data close to specimen edges on parameter identification. <i>Mechanics of Advanced Materials and Structures</i> , 1-15	1.8	0