Henry W Haslach

List of Publications by Year
in descending order

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25 papers	396 citations	933447 10 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	421 citing authors

#	ARTICLE	IF	CITATIONS
1	Minor aortic injury may be at risk of progression from uncontrolled shear stress: An in-vitro model demonstrates aortic lesion expansion. Trauma, 2020, , 146040862095742.	0.5	1
2	Interstitial fluidâ€“solid interaction within aneurysmal and non-pathological human ascending aortic tissue under translational sinusoidal shear deformation. Acta Biomaterialia, 2020, 113, 452-463.	8.3	1
3	Damage to the rat cerebrum under in vitro sinusoidal translational shear deformation. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103969.	3.1	0
4	Fracture mechanics of shear crack propagation and dissection in the healthy bovine descending aortic media. Acta Biomaterialia, 2018, 68, 53-66.	8.3	26
5	Time-frequency analyses of fluidâ€“solid interaction under sinusoidal translational shear deformation of the viscoelastic rat cerebrum. Mechanics of Time-Dependent Materials, 2018, 22, 1-27.	4.4	4
6	Comparison of aneurysmal and non-pathologic human ascending aortic tissue in shear. Clinical Biomechanics, 2018, 58, 49-56.	1.2	6
7	Influence of high deformation rate, brain region, transverse compression, and specimen size on rat brain shear stress morphology and magnitude. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 88-102.	3.1	16
8	Transient solidâ€“fluid interactions in rat brain tissue under combined translational shear and fixed compression. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 12-27.	3.1	7
9	Crack Propagation and Its Shear Mechanisms in the Bovine Descending Aorta. Cardiovascular Engineering and Technology, 2015, 6, 501-518.	1.6	23
10	Solidâ€“extracellular fluid interaction and damage in the mechanical response of rat brain tissue under confined compression. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 138-150.	3.1	24
11	A non-equilibrium model for rapid finite deformation of hydrated soft biological tissue in uniaxial confined compression. Acta Mechanica, 2014, 225, 3041-3058.	2.1	2
12	The Influence of Medial Substructures on Rupture in Bovine Aortas. Cardiovascular Engineering and Technology, 2011, 2, 372-387.	1.6	17
13	Fracture. , 2011, , 269-285.		0
14	Evolution Construction for Homogeneous Thermodynamic Systems. , 2011, , 31-59.		0
15	A maximum dissipation thermodynamic multi-scale model for the dynamic response of the arterial elastinâ€“water system. Acta Mechanica, 2010, 213, 169-188.	2.1	3
16	AÂnon-equilibrium thermodynamic model for the crack propagation rate. Mechanics of Time-Dependent Materials, 2010, 14, 91.	4.4	4
17	Time-dependent mechanisms in fracture of paper. Mechanics of Time-Dependent Materials, 2009, 13, 11.	4.4	15
18	Thermodynamically consistent, maximum dissipation, time-dependent models for non-equilibrium behavior. International Journal of Solids and Structures, 2009, 46, 3964-3976.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Nonlinear viscoelastic, thermodynamically consistent, models for biological soft tissue. Biomechanics and Modeling in Mechanobiology, 2005, 3, 172-189.	2.8	68
20	A nonlinear dynamical mechanism for bruit generation by an intracranial saccular aneurysm. Journal of Mathematical Biology, 2002, 45, 441-460.	1.9	9
21	The Moisture and Rate-Dependent Mechanical Properties of Paper: A Review. Mechanics of Time-Dependent Materials, 2000, 4, 169-210.	4.4	109
22	Maximum dissipation evolution equations for non-linear thermoviscoelasticity. International Journal of Non-Linear Mechanics, 1999, 34, 361-385.	2.6	13
23	Geometric structure of the non-equilibrium thermodynamics of homogeneous systems. Reports on Mathematical Physics, 1997, 39, 147-162.	0.8	20
24	Thermoelastic Generalization of Isothermal Elastic Constitutive Models for Rubber-Like Materials. Rubber Chemistry and Technology, 1996, 69, 313-324.	1.2	4
25	Reversible Performance of Cycles with Variable Temperature Heat Transfer Interactions. International Journal of Mechanical Engineering Education, 1994, 22, 91-99.	1.0	0