

Martin Kroon

List of Publications by Year in descending order

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22
papers

541
citations

840776

11
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	A model for saccular cerebral aneurysm growth by collagen fibre remodelling. Journal of Theoretical Biology, 2007, 247, 775-787.	1.7	92
2	Micromechanics of cleavage fracture initiation in ferritic steels by carbide cracking. Journal of the Mechanics and Physics of Solids, 2005, 53, 171-196.	4.8	62
3	A new constitutive model for multi-layered collagenous tissues. Journal of Biomechanics, 2008, 41, 2766-2771.	2.1	59
4	A theoretical model for fibroblast-controlled growth of saccular cerebral aneurysms. Journal of Theoretical Biology, 2009, 257, 73-83.	1.7	56
5	Title is missing!. International Journal of Fracture, 2002, 118, 99-118.	2.2	45
6	Modeling of Saccular Aneurysm Growth in a Human Middle Cerebral Artery. Journal of Biomechanical Engineering, 2008, 130, 051012.	1.3	37
7	Numerical implementation of a J_2 - and J_3 -dependent plasticity model based on a spectral decomposition of the stress deviator. Computational Mechanics, 2013, 52, 1059-1070.	4.0	30
8	A constitutive model for smooth muscle including active tone and passive viscoelastic behaviour. Mathematical Medicine and Biology, 2010, 27, 129-155.	1.2	27
9	Experimental and computational assessment of F-actin influence in regulating cellular stiffness and relaxation behaviour of fibroblasts. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 168-184.	3.1	25
10	Steady-state crack growth in rubber-like solids. International Journal of Fracture, 2011, 169, 49-60.	2.2	20
11	<i>Ab initio</i> investigation of monoclinic phase stability and martensitic transformation in crystalline polyethylene. Physical Review Materials, 2018, 2, .	2.4	14
12	Numerical analysis of dynamic crack propagation in rubber. International Journal of Fracture, 2012, 177, 163-178.	2.2	12
13	Energy release rates in rubber during dynamic crack propagation. International Journal of Solids and Structures, 2014, 51, 4419-4426.	2.7	12
14	Simulation of Cerebral Aneurysm Growth and Prediction of Evolving Rupture Risk. Modelling and Simulation in Engineering, 2011, 2011, 1-10.	0.7	10
15	Modeling of Fibroblast-Controlled Strengthening and Remodeling of Uniaxially Constrained Collagen Gels. Journal of Biomechanical Engineering, 2010, 132, 111008.	1.3	8
16	An Eulerian thermomechanical elastic-viscoplastic model with isotropic and directional hardening applied to computational welding mechanics. Acta Mechanica, 2021, 232, 189-218.	2.1	8
17	Dynamic steady-state analysis of crack propagation in rubber-like solids using an extended finite element method. Computational Mechanics, 2012, 49, 73-86.	4.0	6
18	Experimental and numerical assessment of the work of fracture in injection-moulded low-density polyethylene. Engineering Fracture Mechanics, 2018, 192, 1-11.	4.3	6

#	ARTICLE	IF	CITATIONS
19	Influence of dispersion in myosin filament orientation and anisotropic filament contractions in smooth muscle. <i>Journal of Theoretical Biology</i> , 2011, 272, 72-82.	1.7	5
20	On the correlation between continuum mechanics entities and cell activity in biological soft tissues: Assessment of three possible criteria for cell-controlled fibre reorientation in collagen gels and collagenous tissues. <i>Journal of Theoretical Biology</i> , 2010, 264, 66-76.	1.7	4
21	Influence of thermal recovery on predictions of the residual mechanical state during melting and solidification. <i>Mechanics of Materials</i> , 2020, 141, 103258.	3.2	3
22	Regularization of localization due to material softening using a nonlocal hardening variable in an Eulerian formulation of inelasticity. <i>International Journal of Engineering Science</i> , 2022, 176, 103684.	5.0	0