Martin Kroon

List of Publications by Year
in descending order

22	541	840776 11	713466 21
papers	citations	h-index	g-index

22	22	22	520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regularization of localization due to material softening using a nonlocal hardening variable in an Eulerian formulation of inelasticity. International Journal of Engineering Science, 2022, 176, 103684.	5.0	0
2	An Eulerian thermomechanical elasticâ€“viscoplastic model with isotropic and directional hardening applied to computational welding mechanics. Acta Mechanica, 2021, 232, 189-218.	2.1	8
3	Influence of thermal recovery on predictions of the residual mechanical state during melting and solidification. Mechanics of Materials, 2020, 141, 103258.	3.2	3
4	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
5	Ab initioinvestigation of monoclinic phase stability and martensitic transformation in crystalline polyethylene. Physical Review Materials, 2018, 2, .	2.4	14
6	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
7	Energy release rates in rubber during dynamic crack propagation. International Journal of Solids and Structures, 2014, 51, 4419-4426.	2.7	12
8	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
9	Numerical analysis of dynamic crack propagation in rubber. International Journal of Fracture, 2012, 177, 163-178.	2.2	12
10	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
11	Steady-state crack growth in rubber-like solids. International Journal of Fracture, 2011, 169, 49-60.	2.2	20
12	Influence of dispersion in myosin filament orientation and anisotropic filament contractions in smooth muscle. Journal of Theoretical Biology, 2011, 272, 72-82.	1.7	5
13	Simulation of Cerebral Aneurysm Growth and Prediction of Evolving Rupture Risk. Modelling and Simulation in Engineering, 2011, 2011, 1-10.	0.7	10
14	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. Journal of Theoretical Biology, 2010, 264, 66-76.	1.7	4
15	A constitutive model for smooth muscle including active tone and passive viscoelastic behaviour. Mathematical Medicine and Biology, 2010, 27, 129-155.	1.2	27
16	Modeling of Fibroblast-Controlled Strengthening and Remodeling of Uniaxially Constrained Collagen Gels. Journal of Biomechanical Engineering, 2010, 132, 111008.	1.3	8
17	A theoretical model for fibroblast-controlled growth of saccular cerebral aneurysms. Journal of Theoretical Biology, 2009, 257, 73-83.	1.7	56
18	A new constitutive model for multi-layered collagenous tissues. Journal of Biomechanics, 2008, 41, 2766-2771.	2.1	59

#	Article	IF	Citations
19	Modeling of Saccular Aneurysm Growth in a Human Middle Cerebral Artery. Journal of Biomechanical Engineering, 2008, 130, 051012.	1.3	37
20	A model for saccular cerebral aneurysm growth by collagen fibre remodelling. Journal of Theoretical Biology, 2007, 247, 775-787.	1.7	92
21	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
22	Title is missing!. International Journal of Fracture, 2002, 118, 99-118.	2.2	45