

Kostas Danas

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,992
citations

236612

25
h-index

233125

45
g-index

51
all docs

51
docs citations

51
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational framework for magnetically hard and soft viscoelastic magnetorheological elastomers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114500.	3.4	30
2	A unified dual modeling framework for soft and hard magnetorheological elastomers. <i>International Journal of Solids and Structures</i> , 2022, 257, 111513.	1.3	22
3	Towards 4D Printing of Very Soft Heterogeneous Magnetoactive Layers for Morphing Surface Applications via Liquid Additive Manufacturing. <i>Polymers</i> , 2022, 14, 1684.	2.0	7
4	Bifurcation of magnetorheological film-substrate elastomers subjected to biaxial pre-compression and transverse magnetic fields. <i>International Journal of Non-Linear Mechanics</i> , 2021, 128, 103608.	1.4	18
5	Experiments and Numerical Implementation of a Boundary Value Problem Involving a Magnetorheological Elastomer Layer Subjected to a Nonuniform Magnetic Field. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	16
6	Model reduction techniques for quantitative nano-mechanical AFM mode. <i>Measurement Science and Technology</i> , 2021, 32, 075406.	1.4	3
7	An explicit dissipative model for isotropic hard magnetorheological elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104361.	2.3	66
8	Quantifying the effect of two-point correlations on the effective elasticity of specific classes of random porous materials with and without connectivity. <i>International Journal of Engineering Science</i> , 2021, 166, 103520.	2.7	16
9	Microstructurally-guided explicit continuum models for isotropic magnetorheological elastomers with iron particles. <i>International Journal of Non-Linear Mechanics</i> , 2020, 120, 103380.	1.4	43
10	Two families of explicit models constructed from a homogenization solution for the magnetoelastic response of MREs containing iron and ferrofluid particles. <i>International Journal of Non-Linear Mechanics</i> , 2020, 119, 103362.	1.4	25
11	Numerically-aided 3D printed random isotropic porous materials approaching the Hashin-Shtrikman bounds. <i>Composites Part B: Engineering</i> , 2019, 156, 344-354.	5.9	40
12	Wrinkling to crinkling transitions and curvature localization in a magnetoelastic film bonded to a non-magnetic substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 133, 103734.	2.3	35
13	An evolving switching surface model for ferromagnetic hysteresis. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	11
14	Random 3D-printed isotropic composites with high volume fraction of pore-like polydisperse inclusions and near-optimal elastic stiffness. <i>Acta Materialia</i> , 2019, 175, 331-340.	3.8	36
15	Programmable higher-order Euler buckling modes in hierarchical beams. <i>International Journal of Solids and Structures</i> , 2019, 167, 170-183.	1.3	20
16	Bifurcation analysis of twisted liquid crystal bilayers. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 123, 61-79.	2.3	3
17	Multiscale modeling of skeletal muscle tissues based on analytical and numerical homogenization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 92, 97-117.	1.5	32
18	Enhanced local maximum-entropy approximation for stable meshfree simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 344, 858-886.	3.4	21

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19	Random distribution of polydisperse ellipsoidal inclusions and homogenization estimates for porous elastic materials. <i>Computers and Structures</i> , 2018, 210, 87-101.	2.4	24
20	Influence of the internal geometry on the elastic properties of materials using 3D printing of computer-generated random microstructures. , 2018, , .		5
21	Deformation mechanisms of idealised cermets under multi-axial loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 102, 80-100.	2.3	12
22	Effective response of classical, auxetic and chiral magnetoelastic materials by use of a new variational principle. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 105, 25-53.	2.3	60
23	A homogenization model for porous ductile solids under cyclic loads comprising a matrix with isotropic and linear kinematic hardening. <i>International Journal of Solids and Structures</i> , 2017, 121, 174-190.	1.3	12
24	Two-field surface pattern control via marginally stable magnetorheological elastomers. <i>Soft Matter</i> , 2017, 13, 6576-6584.	1.2	51
25	A general result for the magnetoelastic response of isotropic suspensions of iron and ferrofluid particles in rubber, with applications to spherical and cylindrical specimens. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 107, 343-364.	2.3	57
26	A homogenization model of the Voigt type for skeletal muscle. <i>Journal of Theoretical Biology</i> , 2017, 414, 50-61.	0.8	27
27	Fredericksz instability for the twisted nematic device: A three-dimensional analysis. <i>Physical Review E</i> , 2016, 94, 012704.	0.8	4
28	A methodology for the estimation of the effective yield function of isotropic composites. <i>International Journal of Solids and Structures</i> , 2016, 87, 120-138.	1.3	17
29	A homogenization based yield criterion for a porous Tresca material with ellipsoidal voids. <i>International Journal of Fracture</i> , 2016, 200, 209-225.	1.1	7
30	Magnetorheological Elastomers: Experimental and Modeling Aspects. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 251-256.	0.3	2
31	Acoustic Properties of Continental Carbonate Rocks - Controlling Factors, Analytical and Numerical Simulations. , 2016, , .		0
32	A model for ductile damage prediction at low stress triaxialities incorporating void shape change and void rotation. <i>International Journal of Solids and Structures</i> , 2015, 63, 240-263.	1.3	63
33	An analytical model for porous single crystals with ellipsoidal voids. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 84, 436-467.	2.3	71
34	A model for porous single crystals with cylindrical voids of elliptical cross-section. <i>International Journal of Solids and Structures</i> , 2015, 64-65, 100-119.	1.3	22
35	On void shape effects of periodic elasto-plastic materials subjected to cyclic loading. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 481-499.	2.1	35
36	Effects of multiaxial cyclic loading conditions on the evolution of porous defects. <i>MATEC Web of Conferences</i> , 2014, 12, 08005.	0.1	0

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37	Instability of a magnetoelastic layer resting on a non-magnetic substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 69, 67-83.	2.3	38
38	The nonlinear elastic response of suspensions of rigid inclusions in rubber: A simple explicit approximation for finite-concentration suspensions. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 19-37.	2.3	84
39	Plane-strain discrete dislocation plasticity with climb-assisted glide motion of dislocations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 045008.	0.8	56
40	Response to the comments by Hutchinson and Tvergaard. <i>International Journal of Solids and Structures</i> , 2012, 49, 3486.	1.3	0
41	Size effects in the conical indentation of an elasto-plastic solid. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1605-1625.	2.3	42
42	Numerical modeling of elasto-plastic porous materials with void shape effects at finite deformations. <i>Composites Part B: Engineering</i> , 2012, 43, 2544-2559.	5.9	62
43	Influence of the Lode parameter and the stress triaxiality on the failure of elasto-plastic porous materials. <i>International Journal of Solids and Structures</i> , 2012, 49, 1325-1342.	1.3	165
44	Experiments and modeling of iron-particle-filled magnetorheological elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 120-138.	2.3	345
45	Compliant interfaces: A mechanism for relaxation of dislocation pile-ups in a sheared single crystal. <i>International Journal of Plasticity</i> , 2010, 26, 1792-1805.	4.1	26
46	A finite-strain model for anisotropic viscoplastic porous media: I Theory. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 387-401.	2.1	106
47	A finite-strain model for anisotropic viscoplastic porous media: II Applications. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 402-416.	2.1	56
48	A homogenization-based constitutive model for two-dimensional viscoplastic porous media. <i>Comptes Rendus - Mecanique</i> , 2008, 336, 79-90.	2.1	20
49	A homogenization-based constitutive model for isotropic viscoplastic porous media. <i>International Journal of Solids and Structures</i> , 2008, 45, 3392-3409.	1.3	59
50	Second-order theory for nonlinear composites and application to isotropic constituents. <i>Comptes Rendus - Mecanique</i> , 2006, 334, 575-581.	2.1	20