

David L Henann

List of Publications by Year in descending order

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26
papers

1,110
citations

516710

16
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-deformation constitutive modeling of viscoelastic foams: Application to a closed-cell foam material. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 161, 104807.	4.8	8
2	Dynamic shearing resistance of hydroxyl-terminated polybutadiene (HTPB). <i>Journal of Applied Physics</i> , 2021, 129, 245901.	2.5	4
3	Dynamic Shearing Resistance of an Energetic Material Simulant: Sucrose. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 159, 104624.	4.8	3
4	Predicting complex nonspherical instability shapes of inertial cavitation bubbles in viscoelastic soft matter. <i>Physical Review E</i> , 2021, 104, 045108.	2.1	7
5	Electromechanical instabilities in periodic dielectric elastomer composites. <i>International Journal of Solids and Structures</i> , 2020, 191-192, 220-242.	2.7	3
6	Nonlocal continuum modeling of dense granular flow in a split-bottom cell with a vane-shaped intruder. <i>Physical Review E</i> , 2020, 102, 022908.	2.1	4
7	Modeling tissue-selective cavitation damage. <i>Physics in Medicine and Biology</i> , 2019, 64, 225001.	3.0	41
8	Experimental characterization and hyperelastic constitutive modeling of open-cell elastomeric foams. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 133, 103701.	4.8	26
9	Material stability and instability in non-local continuum models for dense granular materials. <i>Journal of Fluid Mechanics</i> , 2019, 871, 799-830.	3.4	10
10	Comparative study of the dynamics of laser and acoustically generated bubbles in viscoelastic media. <i>Physical Review E</i> , 2019, 99, 043103.	2.1	29
11	A numerical simulation capability for electroelastic wave propagation in dielectric elastomer composites: Application to tunable soft phononic crystals. <i>International Journal of Solids and Structures</i> , 2018, 150, 1-21.	2.7	28
12	High strain-rate soft material characterization via inertial cavitation. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 291-317.	4.8	96
13	Size-dependence of the flow threshold in dense granular materials. <i>Soft Matter</i> , 2018, 14, 5294-5305.	2.7	18
14	Non-local continuum modelling of steady, dense granular heap flows. <i>Journal of Fluid Mechanics</i> , 2017, 831, 212-227.	3.4	25
15	A finite element implementation of the nonlocal granular rheology. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 108, 273-302.	2.8	22
16	Finite-element modeling of soft solids with liquid inclusions. <i>Extreme Mechanics Letters</i> , 2016, 9, 147-157.	4.1	23
17	Modeling of dielectric viscoelastomers with application to electromechanical instabilities. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 95, 213-229.	4.8	66
18	Nonlocal modeling of granular flows down inclines. <i>Soft Matter</i> , 2015, 11, 179-185.	2.7	112

#	ARTICLE	IF	CITATIONS
19	Continuum thermomechanics of the nonlocal granular rheology. International Journal of Plasticity, 2014, 60, 145-162.	8.8	54
20	Modeling of elasto-capillary phenomena. Soft Matter, 2014, 10, 709-717.	2.7	50
21	Continuum Modeling of Secondary Rheology in Dense Granular Materials. Physical Review Letters, 2014, 113, 178001.	7.8	70
22	3D Viscoelastic traction force microscopy. Soft Matter, 2014, 10, 8095-8106.	2.7	43
23	Modeling of dielectric elastomers: Design of actuators and energy harvesting devices. Journal of the Mechanics and Physics of Solids, 2013, 61, 2047-2066.	4.8	107
24	A predictive, size-dependent continuum model for dense granular flows. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6730-6735.	7.1	250
25	Small-amplitude acoustics in bulk granular media. Physical Review E, 2013, 88, 042205.	2.1	4
26	A Large Strain Isotropic Elasticity Model Based on Molecular Dynamics Simulations of a Metallic Glass. Journal of Elasticity, 2011, 104, 281-302.	1.9	7