

Andrew Gillman

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

868
citations

687363

13
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

949
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of predictive nonlinear theories for multiscale modeling of heterogeneous materials. <i>Journal of Computational Physics</i> , 2017, 330, 192-220.	3.8	348
2	Origami mechanologic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6916-6921.	7.1	112
3	Mechanical computing. <i>Nature</i> , 2021, 598, 39-48.	27.8	101
4	Truss-based nonlinear mechanical analysis for origami structures exhibiting bifurcation and limit point instabilities. <i>International Journal of Solids and Structures</i> , 2018, 147, 80-93.	2.7	60
5	Deformation Behavior of Polystyrene-Grafted Nanoparticle Assemblies with Low Grafting Density. <i>Macromolecules</i> , 2018, 51, 7257-7265.	4.8	43
6	Microstructure-statistics-property relations of anisotropic polydisperse particulate composites using tomography. <i>Physical Review E</i> , 2013, 87, 022208.	2.1	29
7	Generative adversarial network for early-stage design flexibility in topology optimization for additive manufacturing. <i>Journal of Manufacturing Systems</i> , 2021, 59, 675-685.	13.9	22
8	Microstructure statisticsâ€“property relations of silver particle-based interconnects. <i>Materials and Design</i> , 2017, 118, 304-313.	7.0	21
9	Bayesian topology optimization for efficient design of origami folding structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1907-1926.	3.5	20
10	Computing overall elastic constants of polydisperse particulate composites from microtomographic data. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1838-1857.	4.8	19
11	X-ray nanotomography and focused-ion-beam sectioning for quantitative three-dimensional analysis of nanocomposites. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 990-996.	2.4	19
12	Third-order model of thermal conductivity for random polydisperse particulate materials using well-resolved statistical descriptions from tomography. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3070-3073.	2.1	16
13	Third-order thermo-mechanical properties for packs of Platonic solids using statistical micromechanics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150060.	2.1	14
14	Origami-Inspired Frequency Selective Surface with Fixed Frequency Response under Folding. <i>Sensors</i> , 2019, 19, 4808.	3.8	14
15	Design of Soft Origami Mechanisms with Targeted Symmetries. <i>Actuators</i> , 2019, 8, 3.	2.3	8
16	Numerical and experimental analysis of the Youngâ€™s modulus of cold compacted powder materials. <i>Mechanics of Materials</i> , 2017, 112, 56-70.	3.2	7
17	Low-energy, nanoparticle reshaping for large-area, patterned, plasmonic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7157-7169.	5.5	7
18	Discovering Origami Fold Patterns With Optimal Actuation Through Nonlinear Mechanics Analysis. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Design Optimization of Origami-Tunable Frequency Selective Surfaces. IEEE Open Journal of Antennas and Propagation, 2021, 2, 897-910.	3.7	2
20	Mapping geometric and electromagnetic feature spaces with machine learning for additively manufactured RF devices. Additive Manufacturing, 2022, 50, 102549.	3.0	2
21	Geometric Analysis of Adaptive Origami Channels for Heat Transfer Applications. , 2017, , .		0