

Andrew Gillman

List of Publications by Year in descending order

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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	Mapping geometric and electromagnetic feature spaces with machine learning for additively manufactured RF devices. <i>Additive Manufacturing</i> , 2022, 50, 102549.	3.0	2
2	Bayesian topology optimization for efficient design of origami folding structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1907-1926.	3.5	20
3	Design Optimization of Origami-Tunable Frequency Selective Surfaces. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 897-910.	3.7	2
4	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
5	Mechanical computing. <i>Nature</i> , 2021, 598, 39-48.	27.8	101
6	Origami-Inspired Frequency Selective Surface with Fixed Frequency Response under Folding. <i>Sensors</i> , 2019, 19, 4808.	3.8	14
7	Design of Soft Origami Mechanisms with Targeted Symmetries. <i>Actuators</i> , 2019, 8, 3.	2.3	8
8	Deformation Behavior of Polystyrene-Grafted Nanoparticle Assemblies with Low Grafting Density. <i>Macromolecules</i> , 2018, 51, 7257-7265.	4.8	43
9	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
10	Origami mechanologic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6916-6921.	7.1	112
11	Low-energy, nanoparticle reshaping for large-area, patterned, plasmonic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7157-7169.	5.5	7
12	Microstructure statisticsâ€™ property relations of silver particle-based interconnects. <i>Materials and Design</i> , 2017, 118, 304-313.	7.0	21
13	Discovering Origami Fold Patterns With Optimal Actuation Through Nonlinear Mechanics Analysis. , 2017, , .		4
14	Geometric Analysis of Adaptive Origami Channels for Heat Transfer Applications. , 2017, , .		0
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Third-order model of thermal conductivity for random polydisperse particulate materials using well-resolved statistical descriptions from tomography. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3070-3073.	2.1	16
20	Microstructure-statistics-property relations of anisotropic polydisperse particulate composites using tomography. Physical Review E, 2013, 87, 022208.	2.1	29
21	Computing overall elastic constants of polydisperse particulate composites from microtomographic data. Journal of the Mechanics and Physics of Solids, 2011, 59, 1838-1857.	4.8	19