Jongmin Shim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Supervised Machine Learning Approaches to Modeling Residential Infill Development in the City of Los Angeles. Journal of the Urban Planning and Development Division, ASCE, 2022, 148, .	1.7	2
2	On the mechanism of pattern transformations in soft granular crystals. International Journal of Mechanical Sciences, 2022, , 107324.	6.7	0
3	Weakening-induced Snap Instability as a Novel Reusable Force Protection Mechanism. International Journal of Mechanical Sciences, 2021, 207, 106645.	6.7	3
4	Numerical study on the phononic band-structure of soft granular crystals. International Journal of Solids and Structures, 2020, 191-192, 173-186.	2.7	5
5	Optimization of Viscoelastic Metamaterials for Vibration Attenuation Properties. International Journal of Applied Mechanics, 2020, 12, 2050116.	2.2	13
6	Wearable self-powered pressure sensor by integration of piezo-transmittance microporous elastomer with organic solar cell. Nano Energy, 2020, 74, 104749.	16.0	49
7	Hybrid Split Hopkinson Pressure Bar to Identify Impulse-dependent Wave Characteristics of Viscoelastic Phononic Crystals. Experimental Mechanics, 2019, 59, 95-109.	2.0	2
8	Limiting strain for auxeticity under large compressive Deformation: Chiral vs. re-entrant cellular solids. International Journal of Solids and Structures, 2019, 162, 87-95.	2.7	40
9	Sagittal Plane Waves in Infinitely Periodic Multilayered Composites Composed of Alternating Viscoelastic and Elastic Solids. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	2.2	7
10	Snapping Facades: Exploring Elastic Instability for the Building Envelope. Technology Architecture and Design, 2018, 2, 45-54.	0.2	4
11	Generalized Spatial Aliasing Solution for the Dispersion Analysis of Infinitely Periodic Multilayered Composites Using the Finite Element Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	5
12	A class of diatomic 2-D soft granular crystals undergoing pattern transformations. Soft Matter, 2017, 13, 5824-5831.	2.7	6
13	Mechanics of instability-induced pattern transformations in elastomeric porous cylinders. Journal of the Mechanics and Physics of Solids, 2016, 96, 1-17.	4.8	45
14	On spatial aliasing in the phononic band-structure of layered composites. International Journal of Solids and Structures, 2016, 96, 380-392.	2.7	6
15	Highly Sensitive, Flexible, and Wearable Pressure Sensor Based on a Giant Piezocapacitive Effect of Three-Dimensional Microporous Elastomeric Dielectric Layer. ACS Applied Materials & Interfaces, 2016, 8, 16922-16931.	8.0	404
16	Harnessing instability-induced pattern transformation to design tunable phononic crystals. International Journal of Solids and Structures, 2015, 58, 52-61.	2.7	111
17	Pneumatic Networks for Soft Robotics that Actuate Rapidly. Advanced Functional Materials, 2014, 24, 2163-2170.	14.9	1,125
18	Harnessing instabilities for design of soft reconfigurable auxetic/chiral materials. Soft Matter, 2013, 9, 8198.	2.7	174

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19	3D Soft Metamaterials with Negative Poisson's Ratio. Advanced Materials, 2013, 25, 5044-5049.	21.0	615
20	Effects of geometric and material nonlinearities on tunable band gaps and low-frequency directionality of phononic crystals. Physical Review B, 2013, 88, .	3.2	145
21	Metamaterials: 3D Soft Metamaterials with Negative Poisson's Ratio (Adv. Mater. 36/2013). Advanced Materials, 2013, 25, 5116-5116.	21.0	8
22	Buckling-induced encapsulation of structured elastic shells under pressure. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5978-5983.	7.1	218
23	Switching periodic membranes via pattern transformation and shape memory effect. Soft Matter, 2012, 8, 10322.	2.7	98
24	Modeling of cardiac muscle thin films: Pre-stretch, passive and active behavior. Journal of Biomechanics, 2012, 45, 832-841.	2.1	52
25	Deformation induced pattern transformation in a soft granular crystal. Soft Matter, 2011, 7, 2321.	2.7	15
26	Punch indentation of polyurea at different loading velocities: Experiments and numerical simulations. Mechanics of Materials, 2011, 43, 349-360.	3.2	10
27	Rate dependent finite strain constitutive model of polyurea. International Journal of Plasticity, 2011, 27, 868-886.	8.8	79
28	Using split Hopkinson pressure bars to perform large strain compression tests on polyurea at low, intermediate and high strain rates. International Journal of Impact Engineering, 2009, 36, 1116-1127.	5.0	137
29	HEALTH-MONITORING METHOD FOR BRIDGES UNDER ORDINARY TRAFFIC LOADINGS. Journal of Sound and Vibration, 2002, 257, 247-264	3.9	114