

Jesse L Silverberg

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,783
citations

623188

14
h-index

713013

21
g-index

22
all docs

22
docs citations

22
times ranked

2177
citing authors

#	ARTICLE	IF	CITATIONS
1	Using origami design principles to fold reprogrammable mechanical metamaterials. <i>Science</i> , 2014, 345, 647-650.	6.0	714
2	Origami structures with a critical transition to bistability arising from hidden degrees of freedom. <i>Nature Materials</i> , 2015, 14, 389-393.	13.3	382
3	Collective Motion of Humans in Mosh and Circle Pits at Heavy Metal Concerts. <i>Physical Review Letters</i> , 2013, 110, 228701.	2.9	131
4	Topological kinematics of origami metamaterials. <i>Nature Physics</i> , 2018, 14, 811-815.	6.5	74
5	Structure-Function Relations and Rigidity Percolation in the Shear Properties of Articular Cartilage. <i>Biophysical Journal</i> , 2014, 107, 1721-1730.	0.2	68
6	3D imaging and mechanical modeling of helical buckling in <i>Medicago truncatula</i> plant roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16794-16799.	3.3	67
7	Lattice mechanics of origami tessellations. <i>Physical Review E</i> , 2015, 92, 013205.	0.8	65
8	Effects of enzymatic treatments on the depth-dependent viscoelastic shear properties of articular cartilage. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1652-1657.	1.2	53
9	Decoupling local mechanics from large-scale structure in modular metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3590-3595.	3.3	43
10	Emergent Structural Mechanisms for High-Density Collective Motion Inspired by Human Crowds. <i>Physical Review Letters</i> , 2016, 117, 228301.	2.9	35
11	Anatomic variation of depth-dependent mechanical properties in neonatal bovine articular cartilage. <i>Journal of Orthopaedic Research</i> , 2013, 31, 686-691.	1.2	31
12	X-ray computed tomography uncovers root-root interactions: quantifying spatial relationships between interacting root systems in three dimensions. <i>Frontiers in Plant Science</i> , 2015, 6, 274.	1.7	27
13	Cyberphysical risks of hacked internet-connected vehicles. <i>Physical Review E</i> , 2019, 100, 012316.	0.8	23
14	Facilitated recruitment of mesenchymal stromal cells by bone marrow concentrate and platelet rich plasma. <i>PLoS ONE</i> , 2018, 13, e0194567.	1.1	18
15	How grow-and-switch gravitropism generates root coiling and root waving growth responses in <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12938-12943.	3.3	13
16	Morphological characteristics of subchondral bone cysts in medial femoral condyles of adult horses as determined by computed tomography. <i>American Journal of Veterinary Research</i> , 2016, 77, 265-274.	0.3	13
17	Emergent reconfigurable mechanical metamaterial tessellations with an exponentially large number of discrete configurations. <i>Materials and Design</i> , 2020, 196, 109143.	3.3	9
18	Classical analytical mechanics and entropy production. <i>American Journal of Physics</i> , 2007, 75, 993-996.	0.3	8

#	ARTICLE	IF	CITATIONS
19	How to: Using Mode Analysis to Quantify, Analyze, and Interpret the Mechanisms of High-Density Collective Motion. <i>Frontiers in Applied Mathematics and Statistics</i> , 2017, 3, .	0.7	6
20	When dense crowds act like soft solids. <i>Physics Today</i> , 2019, 72, 70-71.	0.3	2
21	Mechanisms and phenomenology of phase separation. <i>Physics of Life Reviews</i> , 2016, 19, 137-138.	1.5	1
22	Molecular Atlas Imaging and Osteoclast Formation: Multiscale Study of Cell-Cell Fusion Mechanisms. <i>Biophysical Journal</i> , 2017, 112, 80a-81a.	0.2	0