

Lucia Stein-Montalvo

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

850
citations

623734

14
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient snap-through of spherical caps by applying a localized curvature stimulus. <i>European Physical Journal E</i> , 2022, 45, 3.	1.6	2
2	Grasping with kirigami shells. <i>Science Robotics</i> , 2021, 6, .	17.6	86
3	Elastic Instabilities Govern the Morphogenesis of the Optic Cup. <i>Physical Review Letters</i> , 2021, 127, 138102.	7.8	5
4	Delayed buckling of spherical shells due to viscoelastic knockdown of the critical load. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	2.1	5
5	Elastogranularity in binary granular mixtures. <i>Granular Matter</i> , 2020, 22, 1.	2.2	3
6	Nonlinear buckling behavior of a complete spherical shell under uniform external pressure and homogenous natural curvature. <i>Physical Review E</i> , 2020, 102, 023003.	2.1	11
7	Packing transitions in the elastogranular confinement of a slender loop. <i>Soft Matter</i> , 2020, 16, 2039-2044.	2.7	4
8	Evolution of critical buckling conditions in imperfect bilayer shells through residual swelling. <i>Soft Matter</i> , 2019, 15, 6134-6144.	2.7	12
9	Buckling of geometrically confined shells. <i>Soft Matter</i> , 2019, 15, 1215-1222.	2.7	26
10	Elasticity and stability of shape-shifting structures. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 118-137.	7.4	95
11	Elastogranular Mechanics: Buckling, Jamming, and Structure Formation. <i>Physical Review Letters</i> , 2018, 120, 078002.	7.8	18
12	Curvature-Induced Instabilities of Shells. <i>Physical Review Letters</i> , 2018, 120, 048002.	7.8	53
13	Static bistability of spherical caps. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170910.	2.1	42
14	Bioinspired Electrically Activated Soft Bistable Actuators. <i>Advanced Functional Materials</i> , 2018, 28, 1802999.	14.9	53
15	Bistable Polymer Actuators: Bioinspired Electrically Activated Soft Bistable Actuators (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT ₂ /Overlo	14.9	53
16	Multistable kirigami for tunable architected materials. <i>Physical Review Materials</i> , 2018, 2, .	2.4	46
17	Extended lubrication theory: improved estimates of flow in channels with variable geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170234.	2.1	26
18	Buckling of elastic beams embedded in granular media. <i>Extreme Mechanics Letters</i> , 2016, 9, 237-244.	4.1	21

#	ARTICLE	IF	CITATIONS
19	Rising beyond elastocapillarity. <i>Soft Matter</i> , 2016, 12, 4886-4890.	2.7	18
20	Geometry and mechanics of thin growing bilayers. <i>Soft Matter</i> , 2016, 12, 4435-4442.	2.7	72
21	Morphing of geometric composites via residual swelling. <i>Soft Matter</i> , 2015, 11, 5812-5820.	2.7	80
22	Swelling-induced deformations: a materials-defined transition from macroscale to microscale deformations. <i>Soft Matter</i> , 2013, 9, 5524-5528.	2.7	36
23	Bending and twisting of soft materials by non-homogenous swelling. <i>Soft Matter</i> , 2011, 7, 5188.	2.7	134