

Joel Marthelot

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6550634/publications.pdf>

Version: 2024-02-01

26
papers

799
citations

567281

15
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

768
citing authors

#	ARTICLE	IF	CITATIONS
1	The Geometric Role of Precisely Engineered Imperfections on the Critical Buckling Load of Spherical Elastic Shells. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	125
2	Bubble casting soft robotics. <i>Nature</i> , 2021, 599, 229-233.	27.8	113
3	Fabrication of slender elastic shells by the coating of curved surfaces. <i>Nature Communications</i> , 2016, 7, 11155.	12.8	80
4	Self-Replicating Cracks: A Collaborative Fracture Mode in Thin Films. <i>Physical Review Letters</i> , 2014, 113, 085502.	7.8	68
5	Transforming architectures inspired by origami. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12234-12235.	7.1	68
6	Buckling of a Pressurized Hemispherical Shell Subjected to a Probing Force. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	61
7	Rotational dynamics of a soft filament: Wrapping transition and propulsive forces. <i>Physics of Fluids</i> , 2008, 20, 051703.	4.0	50
8	Designing soft materials with interfacial instabilities in liquid films. <i>Nature Communications</i> , 2018, 9, 4477.	12.8	39
9	Technical Brief: Knockdown Factor for the Buckling of Spherical Shells Containing Large-Amplitude Geometric Defects. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	35
10	An unbounded approach to microfluidics using the Rayleighâ€Plateau instability of viscous threads directly drawn in a bath. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22966-22971.	7.1	23
11	Buckling patterns in biaxially pre-stretched bilayer shells: wrinkles, creases, folds and fracture-like ridges. <i>Soft Matter</i> , 2017, 13, 7969-7978.	2.7	22
12	Laser Generation of Subâ€Micrometer Wrinkles in a Chalcogenide Glass Film as Physical Unclonable Functions. <i>Advanced Materials</i> , 2020, 32, e2003032.	21.0	18
13	Reversible patterning of spherical shells through constrained buckling. <i>Physical Review Materials</i> , 2017, 1, .	2.4	17
14	Local stresses in the Janssen granular column. <i>Physical Review E</i> , 2013, 88, 022204.	2.1	16
15	A new failure mechanism in thin film by collaborative fracture and delamination: Interacting duos of cracks. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 84, 214-229.	4.8	16
16	Analysis of the multi-cracking mechanism of brittle thin films on elastic-plastic substrates. <i>International Journal of Solids and Structures</i> , 2019, 180-181, 176-188.	2.7	16
17	The fingerprint of a flow: wrinkle patterns in nonuniform coatings on pre-stretched soft foundations. <i>Soft Matter</i> , 2019, 15, 1405-1412.	2.7	7
18	Printing on liquid elastomers. <i>Soft Matter</i> , 2020, 16, 3137-3142.	2.7	7

#	ARTICLE	IF	CITATIONS
19	Relaxation of a highly deformed elastic filament at a fluid interface. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	6
20	Wetting and wrapping of a floating droplet by a thin elastic filament. <i>Soft Matter</i> , 2021, 17, 1497-1504.	2.7	4
21	Curvature Regularization near Contacts with Stretched Elastic Tubes. <i>Physical Review Letters</i> , 2019, 123, 168002.	7.8	2
22	Collaborative Oscillatory Fracture. <i>Physical Review Letters</i> , 2020, 124, 174102.	7.8	2
23	Formation of Pixelated Elastic Films via Capillary Suction of Curable Elastomers in Templated Hele-Shaw Cells. <i>Advanced Materials</i> , 2022, , 2109682.	21.0	2
24	Shapes of a filament on the surface of a bubble. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210353.	2.1	1
25	Solid structures generated by capillary instability in thin liquid films. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	1
26	Rupture et délamination de films minces. , 2016, , 26-29.	0.1	0