

Joel Marthelot

List of Publications by Year in descending order

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26
papers

799
citations

567281

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580821

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times ranked

768
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Wetting and wrapping of a floating droplet by a thin elastic filament. <i>Soft Matter</i> , 2021, 17, 1497-1504.	2.7	4
3	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
4	Bubble casting soft robotics. <i>Nature</i> , 2021, 599, 229-233.	27.8	113
5	Laser Generation of Sub-Micrometer Wrinkles in a Chalcogenide Glass Film as Physical Unclonable Functions. <i>Advanced Materials</i> , 2020, 32, e2003032.	21.0	18
6	Printing on liquid elastomers. <i>Soft Matter</i> , 2020, 16, 3137-3142.	2.7	7
7	Collaborative Oscillatory Fracture. <i>Physical Review Letters</i> , 2020, 124, 174102.	7.8	2
8	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
9	Curvature Regularization near Contacts with Stretched Elastic Tubes. <i>Physical Review Letters</i> , 2019, 123, 168002.	7.8	2
10	An unbounded approach to microfluidics using the Rayleigh-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	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
12	Designing soft materials with interfacial instabilities in liquid films. <i>Nature Communications</i> , 2018, 9, 4477.	12.8	39
13	Solid structures generated by capillary instability in thin liquid films. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	1
14	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
15	Buckling of a Pressurized Hemispherical Shell Subjected to a Probing Force. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	61
16	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
17	Reversible patterning of spherical shells through constrained buckling. <i>Physical Review Materials</i> , 2017, 1, .	2.4	17
18	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

#	ARTICLE	IF	CITATIONS
19	Fabrication of slender elastic shells by the coating of curved surfaces. Nature Communications, 2016, 7, 11155.	12.8	80
20	Relaxation of a highly deformed elastic filament at a fluid interface. Physical Review Fluids, 2016, 1, .	2.5	6
21	Rupture et délamination de films minces. , 2016, , 26-29.	0.1	0
22	A new failure mechanism in thin film by collaborative fracture and delamination: Interacting duos of cracks. Journal of the Mechanics and Physics of Solids, 2015, 84, 214-229.	4.8	16
23	Transforming architectures inspired by origami. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12234-12235.	7.1	68
24	Self-Replicating Cracks: A Collaborative Fracture Mode in Thin Films. Physical Review Letters, 2014, 113, 085502.	7.8	68
25	Local stresses in the Janssen granular column. Physical Review E, 2013, 88, 022204.	2.1	16
26	Rotational dynamics of a soft filament: Wrapping transition and propulsive forces. Physics of Fluids, 2008, 20, 051703.	4.0	50