

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40 papers	743 citations	16 h-index	26 g-index
46 ext. papers	981 ext. citations	5.8 avg, IF	4.75 L-index

#	Paper	IF	Citations
40	Competition between Mullins and curvature effects in the wrinkling of stretched soft shells. <i>International Journal of Solids and Structures</i> , 2022 , 241, 111473	3.1	1
39	Stretchable and ultrasensitive strain sensor based on a bilayer wrinkle-microcracking mechanism. <i>Chemical Engineering Journal</i> , 2022 , 437, 135399	14.7	6
38	Intricate evolutions of multiple-period post-buckling patterns in bilayers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	4
37	Nanosleeves: Morphology transitions of infilled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 152, 104398	5	
36	Oblique wrinkling patterns on liquid crystal polymer core-shell cylinders under thermal load. <i>International Journal of Solids and Structures</i> , 2021 , 208-209, 181-193	3.1	2
35	Curvature tunes wrinkling in shells. <i>International Journal of Engineering Science</i> , 2021 , 164, 103490	5.7	2
34	Computing wrinkling and restabilization of stretched sheets based on a consistent finite-strain plate theory. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 384, 113986	5.7	1
33	Buckling of an elastic layer based on implicit constitution: Incremental theory and numerical framework. <i>International Journal of Engineering Science</i> , 2021 , 169, 103568	5.7	1
32	Thermal wrinkling of liquid crystal polymer shell/core spheres. <i>Extreme Mechanics Letters</i> , 2020 , 40, 100860	3.9	5
31	A perovskite solar cell textile that works at -40 to 160 °C. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5476-5483	5.4	14
30	Water Affects Morphogenesis of Growing Aquatic Plant Leaves. <i>Physical Review Letters</i> , 2020 , 124, 038003	10.4	25
29	Pattern selection in core-shell spheres. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103892	5	14
28	Functionalized helical fibre bundles of carbon nanotubes as electrochemical sensors for long-term in vivo monitoring of multiple disease biomarkers. <i>Nature Biomedical Engineering</i> , 2020 , 4, 159-171	19	99
27	Effect of surface topography on anisotropic friction of graphene layers. <i>Extreme Mechanics Letters</i> , 2020 , 40, 100988	3.9	0
26	A finite strain model predicts oblique wrinkles in stretched anisotropic films. <i>International Journal of Engineering Science</i> , 2020 , 155, 103354	5.7	6
25	Wrinkling and smoothing of a soft shell. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 134, 103738	5	14
24	Light-Boosting Highly Sensitive Pressure Sensors Based on Bioinspired Multiscale Surface Structures. <i>Advanced Functional Materials</i> , 2020 , 30, 1907091	15.6	53

23	Controllable wrinkling patterns on liquid crystal polymer film/substrate systems by laser illumination. <i>Extreme Mechanics Letters</i> , 2019 , 30, 100502	3.9	7
22	All-Optical Reversible Azo-Based Wrinkling Patterns with High Aspect Ratio and Polarization-Independent Orientation for Light-Responsive Soft Photonics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25595-25604	9.5	24
21	Orientable wrinkles in stretched orthotropic films. <i>Extreme Mechanics Letters</i> , 2019 , 33, 100579	3.9	11
20	On the wrinkling and restabilization of highly stretched sheets. <i>International Journal of Engineering Science</i> , 2019 , 136, 1-16	5.7	27
19	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2437-2442	16.4	81
18	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 2459-2464	3.6	16
17	A modeling and resolution framework for wrinkling in hyperelastic sheets at finite membrane strain. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 124, 446-470	5	41
16	Piezoluminescent devices by designing array structures. <i>Science Bulletin</i> , 2019 , 64, 151-157	10.6	9
15	Photo-controlled patterned wrinkling of liquid crystalline polymer films on compliant substrates. <i>International Journal of Solids and Structures</i> , 2018 , 132-133, 264-277	3.1	21
14	Snap-through instabilities of pressurized balloons: Pear-shaped bifurcation and localized bulging. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 98, 137-144	2.8	13
13	Pattern Transitions in a Soft Cylindrical Shell. <i>Physical Review Letters</i> , 2018 , 120, 215503	7.4	19
12	Post-buckling evolution of wavy patterns in trapezoidal film/substrate bilayers. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 96, 46-55	2.8	3
11	On the buckling and post-buckling of core-shell cylinders under thermal loading. <i>International Journal of Solids and Structures</i> , 2017 , 126-127, 17-36	3.1	17
10	Quantitative predictions of diverse wrinkling patterns in film/substrate systems. <i>Scientific Reports</i> , 2017 , 7, 18081	4.9	8
9	A multi-scale modeling framework for instabilities of film/substrate systems. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 86, 150-172	5	43
8	Cellular instabilities analyzed by multi-scale Fourier series: A review. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2016 , 9, 585-597	2.8	2
7	Light-Induced Bending and Buckling of Large-Deflected Liquid Crystalline Polymer Plates. <i>International Journal of Applied Mechanics</i> , 2016 , 08, 1640007	2.4	10
6	On axisymmetric/diamond-like mode transitions in axially compressed core-shell cylinders. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 94, 68-87	5	36

5	Instabilities in thin films on hyperelastic substrates by 3D finite elements. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 71-85	3.1	21
4	Multiple bifurcations in wrinkling analysis of thin films on compliant substrates. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 76, 203-222	2.8	29
3	3D finite element modeling for instabilities in thin films on soft substrates. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3619-3632	3.1	47
2	Bridging techniques in a multi-scale modeling of pattern formation. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3119-3134	3.1	7
1	An asymptotic modeling and resolution framework for morphology evolutions of multiple-period post-buckling modes in bilayers. <i>Mathematics and Mechanics of Solids</i> , 108128652210830	2.3	1