

# Senjiang Yu

## 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.

27  
papers

310  
citations

9  
h-index

17  
g-index

27  
ext. papers

362  
ext. citations

4.5  
avg, IF

3.51  
L-index

#	Paper	IF	Citations
27	Non-Fluorinated Flexible Superhydrophobic Surface with Excellent Mechanical Durability and Self-Cleaning Performance.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	5
26	Tailoring Ordered Wrinkle Arrays for Tunable Surface Performances by Template-Modulated Gradient Films.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	5
25	MULTIMODE WRINKLING PATTERNS OF IRON FILMS SPUTTER DEPOSITED ON FLEXIBLE SUBSTRATES WITH GRADIENT MODULUS. <i>Surface Review and Letters</i> , <b>2021</b> , 28, 2150035	1.1	
24	Spontaneous hierarchical wrinkling of metal films sputter-deposited on liquid-like gel substrates. <i>Thin Solid Films</i> , <b>2020</b> , 707, 138075	2.2	2
23	Ridged Zn/PDMS smart surface with wide-range reversible wettability and high sensitivity responsive to mechanical strain. <i>Materials and Design</i> , <b>2020</b> , 193, 108857	8.1	6
22	Harnessing Heterogeneous Wrinkles in Metal/Polydimethylsiloxane Film System by Combination of Mechanical Loading and Heat Treatment. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1902188	4.6	9
21	An analytical study on the morphology of buckle-delamination under large compression and boundary undulation. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 193-194, 557-567	3.1	2
20	Ordered ring-shaped cracks induced by indentation in metal films on soft elastic substrates. <i>Physical Review E</i> , <b>2020</b> , 102, 022801	2.4	0
19	Impact of ridge cracking on the morphology of buckle-delamination. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 126, 103561	2.8	1
18	CONTROLLED MORPHOLOGICAL EVOLUTIONS OF SILVER FILMS ON COMPLIANT SUBSTRATES BY TUNING MECHANICAL STRAIN. <i>Surface Review and Letters</i> , <b>2020</b> , 27, 1950094	1.1	1
17	Localization of wrinkle patterns by crack-tip induced plasticity: Experiments and simulations. <i>International Journal of Solids and Structures</i> , <b>2019</b> , 178-179, 108-119	3.1	4
16	Hierarchical wrinkles and oscillatory cracks in metal films deposited on liquid stripes. <i>Physical Review E</i> , <b>2019</b> , 99, 062802	2.4	9
15	Fracture and wrinkle patterns of metal/elastomer bilayers on glass slides induced by high temperature annealing. <i>Thin Solid Films</i> , <b>2019</b> , 684, 42-52	2.2	
14	Controlled Wrinkling Patterns in Periodic Thickness-Gradient Films on Polydimethylsiloxane Substrates. <i>Langmuir</i> , <b>2019</b> , 35, 7146-7154	4	15
13	Hierarchical crack patterns of metal films sputter deposited on soft elastic substrates. <i>Physical Review E</i> , <b>2019</b> , 100, 052804	2.4	5
12	Formation, evolution and transition of multiple surface patterns in metal films on polymer substrates under uniaxial loading. <i>Thin Solid Films</i> , <b>2019</b> , 669, 355-363	2.2	11
11	Wrinkling patterns of tantalum films on modulus-gradient compliant substrates. <i>Thin Solid Films</i> , <b>2018</b> , 654, 100-106	2.2	8

10	Harnessing fold-to-wrinkle transition and hierarchical wrinkling on soft material surfaces by regulating substrate stiffness and sputtering flux. <i>Soft Matter</i> , <b>2018</b> , 14, 6745-6755	3.6	17
9	Harnessing surface wrinkling in film-substrate system by precisely controlling substrate modulus. <i>Thin Solid Films</i> , <b>2018</b> , 660, 353-357	2.2	7
8	The shape of telephone cord blisters. <i>Nature Communications</i> , <b>2017</b> , 8, 14138	17.4	24
7	Controlled Formation of Surface Patterns in Metal Films Deposited on Elasticity-Gradient PDMS Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5706-14	9.5	64
6	Tunable formation of ordered wrinkles in metal films with controlled thickness gradients deposited on soft elastic substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5160-7	9.5	58
5	Anomalous magnetic properties of Tb/Cr multilayer. <i>Materials Letters</i> , <b>2015</b> , 158, 241-243	3.3	3
4	Morphology and Structure Evolutions of Self-Assembled Silver Atomic Islands on Liquid Substrates. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 024603	1.5	
3	Wrinkled stripes localized by cracks in metal films deposited on soft substrates. <i>Soft Matter</i> , <b>2015</b> , 11, 2203-12	3.6	35
2	Growth mechanism and stress relief patterns of Ni films deposited on silicone oil surfaces. <i>Applied Surface Science</i> , <b>2009</b> , 255, 8352-8358	6.7	18
1	Characteristic mechanical properties and complex ordered structures in metal films on liquid substrates. <i>Science Bulletin</i> , <b>2006</b> , 51, 1039-1049		1