Senjiang Yu

List of Publications by Year
in descending order

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27	440	758635 12	713013 21
papers	citations	h-index	g-index

27	27	27	437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlled Formation of Surface Patterns in Metal Films Deposited on Elasticity-Gradient PDMS Substrates. ACS Applied Materials & Interfaces, 2016, 8, 5706-5714.	4.0	72
2	Tunable Formation of Ordered Wrinkles in Metal Films with Controlled Thickness Gradients Deposited on Soft Elastic Substrates. ACS Applied Materials & Interfaces, 2015, 7, 5160-5167.	4.0	69
3	Wrinkled stripes localized by cracks in metal films deposited on soft substrates. Soft Matter, 2015, 11, 2203-2212.	1.2	42
4	Non-Fluorinated Flexible Superhydrophobic Surface with Excellent Mechanical Durability and Self-Cleaning Performance. ACS Applied Materials & Interfaces, 2022, 14, 4750-4758.	4.0	42
5	The shape of telephone cord blisters. Nature Communications, 2017, 8, 14138.	5.8	37
6	Harnessing fold-to-wrinkle transition and hierarchical wrinkling on soft material surfaces by regulating substrate stiffness and sputtering flux. Soft Matter, 2018, 14, 6745-6755.	1.2	24
7	Growth mechanism and stress relief patterns of Ni films deposited on silicone oil surfaces. Applied Surface Science, 2009, 255, 8352-8358.	3.1	19
8	Controlled Wrinkling Patterns in Periodic Thickness-Gradient Films on Polydimethylsiloxane Substrates. Langmuir, 2019, 35, 7146-7154.	1.6	18
9	Harnessing Heterogeneous Wrinkles in Metal/Polydimethylsiloxane Film System by Combination of Mechanical Loading and Heat Treatment. Advanced Materials Interfaces, 2020, 7, 1902188.	1.9	15
10	Formation, evolution and transition of multiple surface patterns in metal films on polymer substrates under uniaxial loading. Thin Solid Films, 2019, 669, 355-363.	0.8	14
11	Ridged Zn/PDMS smart surface with wide-range reversible wettability and high sensitivity responsive to mechanical strain. Materials and Design, 2020, 193, 108857.	3.3	13
12	Tailoring Ordered Wrinkle Arrays for Tunable Surface Performances by Template-Modulated Gradient Films. ACS Applied Materials & Interfaces, 2022, 14, 11989-11998.	4.0	13
13	Wrinkling patterns of tantalum films on modulus-gradient compliant substrates. Thin Solid Films, 2018, 654, 100-106.	0.8	11
14	Hierarchical wrinkles and oscillatory cracks in metal films deposited on liquid stripes. Physical Review E, 2019, 99, 062802.	0.8	11
15	Harnessing surface wrinkling in film-substrate system by precisely controlling substrate modulus. Thin Solid Films, 2018, 660, 353-357.	0.8	9
16	Hierarchical crack patterns of metal films sputter deposited on soft elastic substrates. Physical Review E, 2019, 100, 052804.	0.8	8
17	An analytical study on the morphology of buckle-delamination under large compression and boundary undulation. International Journal of Solids and Structures, 2020, 193-194, 557-567.	1.3	6
18	Anomalous magnetic properties of Tb/Cr multilayer. Materials Letters, 2015, 158, 241-243.	1.3	4

#	Article	IF	Citations
19	Localization of wrinkle patterns by crack-tip induced plasticity: Experiments and simulations. International Journal of Solids and Structures, 2019, 178-179, 108-119.	1.3	4
20	Spontaneous hierarchical wrinkling of metal films sputter-deposited on liquid-like gel substrates. Thin Solid Films, 2020, 707, 138075.	0.8	3
21	Ordered ring-shaped cracks induced by indentation in metal films on soft elastic substrates. Physical Review E, 2020, 102, 022801.	0.8	2
22	Impact of ridge cracking on the morphology of buckle-delamination. International Journal of Non-Linear Mechanics, 2020, 126, 103561.	1.4	2
23	Characteristic mechanical properties and complex ordered structures in metal films on liquid substrates. Science Bulletin, 2006, 51, 1039-1049.	1.7	1
24	CONTROLLED MORPHOLOGICAL EVOLUTIONS OF SILVER FILMS ON COMPLIANT SUBSTRATES BY TUNING MECHANICAL STRAIN. Surface Review and Letters, 2020, 27, 1950094.	0.5	1
25	Morphology and Structure Evolutions of Self-Assembled Silver Atomic Islands on Liquid Substrates. Journal of the Physical Society of Japan, 2015, 84, 024603.	0.7	0
26	Fracture and wrinkle patterns of metal/elastomer bilayers on glass slides induced by high temperature annealing. Thin Solid Films, 2019, 684, 42-52.	0.8	0
27	MULTIMODE WRINKLING PATTERNS OF IRON FILMS SPUTTER DEPOSITED ON FLEXIBLE SUBSTRATES WITH GRADIENT MODULUS. Surface Review and Letters, 2021, 28, 2150035.	0.5	0