

Aoyi Luo

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

255
citations

1307594

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h-index

1281871

11
g-index

11
all docs

11
docs citations

11
times ranked

301
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesion of beams with subsurface elastic heterogeneity. Journal of the Mechanics and Physics of Solids, 2022, 159, 104713.	4.8	4
2	Dynamically Tunable Dry Adhesion through a Subsurface Thin Layer with Tunable Stiffness. Advanced Materials Interfaces, 2022, 9, .	3.7	5
3	Machine learning-based optimization of the design of composite pillars for dry adhesives. Extreme Mechanics Letters, 2022, 54, 101695.	4.1	10
4	Versatile Adhesion-Based Gripping via an Unstructured Variable Stiffness Membrane. Soft Robotics, 2022, 9, 1177-1185.	8.0	3
5	Achieving enhanced adhesion through optimal stress distributions. Journal of the Mechanics and Physics of Solids, 2021, 156, 104610.	4.8	4
6	Adhesion of flat-ended pillars with non-circular contacts. Soft Matter, 2020, 16, 9534-9542.	2.7	11
7	Switchable Adhesion via Subsurface Pressure Modulation. ACS Applied Materials & Interfaces, 2020, 12, 27717-27725.	8.0	20
8	Mechanics of crack path selection in microtransfer printing: Challenges and opportunities for process control. Journal of the Mechanics and Physics of Solids, 2020, 143, 104066.	4.8	9
9	Humidity-Modulated Core-Shell Nanopillars for Enhancement of Gecko-Inspired Adhesion. ACS Applied Nano Materials, 2020, 3, 3596-3603.	5.0	20
10	Hybrid Surface Patterns Mimicking the Design of the Adhesive Toe Pad of Tree Frog. ACS Nano, 2017, 11, 9711-9719.	14.6	111
11	Critical review of membrane distillation performance criteria. Desalination and Water Treatment, 2016, 57, 20093-20140.	1.0	58