Animangsu Ghatak

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54 1,459 19 38 g-index

54 1,576 5.4 4.62 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
54	Meniscus instability in a thin elastic film. <i>Physical Review Letters</i> , 2000 , 85, 4329-32	7.4	177
53	Peeling from a biomimetically patterned thin elastic film. <i>Proceedings of the Royal Society A:</i> Mathematical, Physical and Engineering Sciences, 2004 , 460, 2725-2735	2.4	163
52	Interfacial Rate Processes in Adhesion and Friction. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4018-403	39.4	144
51	Adhesion-Induced Instability Patterns in Thin Confined Elastic Film. <i>Langmuir</i> , 2003 , 19, 2621-2631	4	128
50	Microfluidic adhesion induced by subsurface microstructures. <i>Science</i> , 2007 , 318, 258-61	33.3	116
49	Embedded template-assisted fabrication of complex microchannels in PDMS and design of a microfluidic adhesive. <i>Langmuir</i> , 2006 , 22, 10291-5	4	106
48	Measuring the work of adhesion between a soft confined film and a flexible plate. <i>Langmuir</i> , 2005 , 21, 1277-81	4	66
47	Fibrillar Elastomeric Micropatterns Create Tunable Adhesion Even to Rough Surfaces. <i>Advanced Functional Materials</i> , 2016 , 26, 4687-4694	15.6	60
46	Kink instability of a highly deformable elastic cylinder. <i>Physical Review Letters</i> , 2007 , 99, 076101	7.4	56
45	Estimation of solid-liquid interfacial tension using curved surface of a soft solid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12563-8	11.5	32
44	Adhesion-induced instabilities and pattern formation in thin films of elastomers and gels. <i>European Physical Journal E</i> , 2015 , 38, 82	1.5	31
43	Three-dimensional multihelical microfluidic mixers for rapid mixing of liquids. <i>Langmuir</i> , 2008 , 24, 2248	-541	30
42	A bioinspired wet/dry microfluidic adhesive for aqueous environments. <i>Langmuir</i> , 2010 , 26, 521-5	4	26
41	Reusable antifouling viscoelastic adhesive with an elastic skin. <i>Langmuir</i> , 2012 , 28, 42-6	4	23
40	Peeling off an adhesive layer with spatially varying modulus. <i>Physical Review E</i> , 2010 , 81, 021603	2.4	23
39	Critical Confinement and Elastic Instability in Thin Solid Films 2007 , 83, 679-704		23
38	Bioinspired design of a hierarchically structured adhesive. <i>Langmuir</i> , 2009 , 25, 611-7	4	22

(2013-2009)

37	Hysteresis of soft joints embedded with fluid-filled microchannels. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 203-8	4.1	22
36	Disordered nanowrinkle substrates for inducing crystallization over a wide range of concentration of protein and precipitant. <i>Langmuir</i> , 2013 , 29, 4373-80	4	20
35	Puncturing of soft gels with multi-tip needles. <i>Journal of Materials Science</i> , 2011 , 46, 2895-2904	4.3	17
34	Effect of surface modification on frictional properties of polyester fabric. <i>Tribology International</i> , 2016 , 97, 38-48	4.9	16
33	Control of adhesion via internally pressurized subsurface microchannels. <i>Langmuir</i> , 2012 , 28, 4339-45	4	15
32	Microchannel Induced Surface Bulging of a Soft Elastomeric Layer. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 2681-2692	2	15
31	Adhesives with patterned sub-surface microstructures. <i>Journal of Materials Science</i> , 2011 , 46, 832-838	4.3	13
30	Self oscillating potential generated in patterned micro-fluidic fuel cell. <i>Electrochimica Acta</i> , 2013 , 87, 489-496	6.7	12
29	Generation of Aspherical Optical Lenses via Arrested Spreading and Pinching of a Cross-Linkable Liquid. <i>Langmuir</i> , 2016 , 32, 5356-64	4	12
28	How to make a cylinder roll uphill. <i>Soft Matter</i> , 2012 , 8, 5038	3.6	10
28	How to make a cylinder roll uphill. <i>Soft Matter</i> , 2012 , 8, 5038 Generation of Air Water Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9356-9364	3.6	10
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27	Generation of Air Water Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9356-9364 Controlled Crystallization of Macromolecules using Patterned Substrates in a Sandwiched Plate	3.9	9
27 26	Generation of Air Water Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. Industrial & Description of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry</i>	3.9	9
27 26 25	Generation of AirWater Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Discontinuous Engineering Chemistry Research</i> , 2012 , 51, 9356-9364 Controlled Crystallization of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. <i>Industrial & Discontinuous Engineering Chemistry Research</i> , 2011 , 50, 12984-12989 Peeling off an adhesive layer with spatially varying topography and shear modulus. <i>Physical Review E</i> , 2014 , 89, 032407 Harvesting energy of interaction between bacteria and bacteriophage in a membrane-less fuel cell.	3·9 3·9 2·4	9 9 8
27 26 25 24	Generation of Air Water Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Discourse Industrial & Discourse Indu</i>	3.9 3.9 2.4	9 9 8 7
27 26 25 24 23	Generation of AirWater Two-Phase Flow Patterns by Altering the Helix Angle in Triple Helical Microchannels. <i>Industrial & Microchannels. Industrial & Microchannels. Indus</i>	3.9 3.9 2.4 11 3.6 8.1	9 9 8 7 6

19	Flow through triple helical microchannel. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	4
18	Vibration assisted puncturing of a soft brittle solid. <i>Extreme Mechanics Letters</i> , 2019 , 26, 26-34	3.9	4
17	Bi-convex aspheric optical lenses. <i>Applied Physics Letters</i> , 2017 , 110, 103701	3.4	3
16	Precipitantless Crystallization of Protein Molecules Induced by High Surface Potential. <i>Crystal Growth and Design</i> , 2016 , 16, 5323-5329	3.5	3
15	Measurement of dynamic surface tension using helical flow of a viscous liquid in a pool of another viscous liquid inside a micro-channel. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 573-580	2.8	2
14	Analysis of mixing in a helical microchannel. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
13	Confinement-Induced Alteration of Morphologies of Oil-Water Emulsions. <i>Langmuir</i> , 2019 , 35, 3797-38	30 4	2
12	Soft Gel-Filled Composite Adhesive for Dry and Wet Adhesion. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 3755-3765	4.3	2
11	The effect of shape on the fracture of a soft elastic gel subjected to shear load. <i>Soft Matter</i> , 2018 , 14, 1365-1374	3.6	1
10	Rolling of an elastomeric cylinder: A Marangoni like effect in solid. <i>Extreme Mechanics Letters</i> , 2015 , 3, 24-35	3.9	1
9	Bio-inspired adhesion. Journal of Adhesion Science and Technology, 2014, 28, 225-225	2	1
8	Sub-surface fracture of a thin metallic foil under impact loading. <i>International Journal of Solids and Structures</i> , 2011 , 48, 2902-2908	3.1	1
7	Microchannel Embedded Elastomeric Layers for Impact Damping 2011 , 87, 531-546		1
6	How does a lizard shed its tail?. Science, 2022, 375, 721-722	33.3	1
5	Effect of roughness on the conductivity of vacuum coated flexible paper electrodes. <i>Nano Select</i> , 2021 , 2, 2007	3.1	0
4	Polygonal deformation of a metallic foil subjected to impact by an axisymmetric indenter. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 1647-1657	2	
3	Optofluidic Lenses: Design of an Adaptable Optofluidic Aspherical Lens by Using the Elastocapillary Effect (Advanced Optical Materials 9/2014). <i>Advanced Optical Materials</i> , 2014 , 2, 873-873	8.1	
2	Fingering instability during fracture of a gel block subjected to shear loading. <i>Physical Review E</i> , 2020 , 102, 013002	2.4	

LIST OF PUBLICATIONS

1

Liquid Spreading Induced by In Situ Generation of Metallic Nanoparticles. *Langmuir*, **2020**, 36, 12237-12246