

Animangsu Ghatak

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.

54 papers	1,459 citations	19 h-index	38 g-index
54 ext. papers	1,576 ext. citations	5.4 avg, IF	4.62 L-index

#	Paper	IF	Citations
54	How does a lizard shed its tail?. <i>Science</i> , 2022 , 375, 721-722	33.3	1
53	Effect of roughness on the conductivity of vacuum coated flexible paper electrodes. <i>Nano Select</i> , 2021 , 2, 2007	3.1	0
52	Soft Gel-Filled Composite Adhesive for Dry and Wet Adhesion. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 3755-3765	4.3	2
51	Analysis of mixing in a helical microchannel. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
50	Fingering instability during fracture of a gel block subjected to shear loading. <i>Physical Review E</i> , 2020 , 102, 013002	2.4	
49	Liquid Spreading Induced by In Situ Generation of Metallic Nanoparticles. <i>Langmuir</i> , 2020 , 36, 12237-12246	4.6	
48	Confinement-Induced Alteration of Morphologies of Oil-Water Emulsions. <i>Langmuir</i> , 2019 , 35, 3797-3804	4.4	2
47	Vibration assisted puncturing of a soft brittle solid. <i>Extreme Mechanics Letters</i> , 2019 , 26, 26-34	3.9	4
46	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
45	Flow through triple helical microchannel. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	4
44	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	
43	Bi-convex aspheric optical lenses. <i>Applied Physics Letters</i> , 2017 , 110, 103701	3.4	3
42	Precipitantless Crystallization of Protein Molecules Induced by High Surface Potential. <i>Crystal Growth and Design</i> , 2016 , 16, 5323-5329	3.5	3
41	Effect of surface modification on frictional properties of polyester fabric. <i>Tribology International</i> , 2016 , 97, 38-48	4.9	16
40	Fibrillar Elastomeric Micropatterns Create Tunable Adhesion Even to Rough Surfaces. <i>Advanced Functional Materials</i> , 2016 , 26, 4687-4694	15.6	60
39	Generation of Aspherical Optical Lenses via Arrested Spreading and Pinching of a Cross-Linkable Liquid. <i>Langmuir</i> , 2016 , 32, 5356-64	4	12
38	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

37	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
36	Rolling of an elastomeric cylinder: A Marangoni like effect in solid. <i>Extreme Mechanics Letters</i> , 2015 , 3, 24-35	3.9	1
35	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	
34	A co-operative effect of closely spaced intruding objects puncturing into a soft solid. <i>Soft Matter</i> , 2014 , 10, 6059-67	3.6	6
33	Bio-inspired adhesion. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 225-225	2	1
32	Peeling off an adhesive layer with spatially varying topography and shear modulus. <i>Physical Review E</i> , 2014 , 89, 032407	2.4	8
31	Design of an Adaptable Optofluidic Aspherical Lens by Using the Elastocapillary Effect. <i>Advanced Optical Materials</i> , 2014 , 2, 874-878	8.1	5
30	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
29	Multi-helical micro-channels for rapid generation of drops of water in oil. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 637-646	2.8	4
28	Self oscillating potential generated in patterned micro-fluidic fuel cell. <i>Electrochimica Acta</i> , 2013 , 87, 489-496	6.7	12
27	Harvesting energy of interaction between bacteria and bacteriophage in a membrane-less fuel cell. <i>Bioresource Technology</i> , 2013 , 147, 654-657	11	7
26	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
25	Direction specific adhesion induced by subsurface liquid filled microchannels. <i>Soft Matter</i> , 2012 , 8, 7228	3.6	5
24	How to make a cylinder roll uphill. <i>Soft Matter</i> , 2012 , 8, 5038	3.6	10
23	Reusable antifouling viscoelastic adhesive with an elastic skin. <i>Langmuir</i> , 2012 , 28, 42-6	4	23
22	Control of adhesion via internally pressurized subsurface microchannels. <i>Langmuir</i> , 2012 , 28, 4339-45	4	15
21	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	3.9	9
20	Controlled Crystallization of Macromolecules using Patterned Substrates in a Sandwiched Plate Geometry. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12984-12989	3.9	9

19	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
18	Adhesives with patterned sub-surface microstructures. <i>Journal of Materials Science</i> , 2011 , 46, 832-838	4.3	13
17	Puncturing of soft gels with multi-tip needles. <i>Journal of Materials Science</i> , 2011 , 46, 2895-2904	4.3	17
16	Microchannel Embedded Elastomeric Layers for Impact Damping 2011 , 87, 531-546		1
15	Peeling off an adhesive layer with spatially varying modulus. <i>Physical Review E</i> , 2010 , 81, 021603	2.4	23
14	Microchannel Induced Surface Bulging of a Soft Elastomeric Layer. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 2681-2692	2	15
13	A bioinspired wet/dry microfluidic adhesive for aqueous environments. <i>Langmuir</i> , 2010 , 26, 521-5	4	26
12	Bioinspired design of a hierarchically structured adhesive. <i>Langmuir</i> , 2009 , 25, 611-7	4	22
11	Hysteresis of soft joints embedded with fluid-filled microchannels. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 203-8	4.1	22
10	Three-dimensional multihelical microfluidic mixers for rapid mixing of liquids. <i>Langmuir</i> , 2008 , 24, 2248-51	4	30
9	Microfluidic adhesion induced by subsurface microstructures. <i>Science</i> , 2007 , 318, 258-61	33.3	116
8	Critical Confinement and Elastic Instability in Thin Solid Films 2007 , 83, 679-704		23
7	Kink instability of a highly deformable elastic cylinder. <i>Physical Review Letters</i> , 2007 , 99, 076101	7.4	56
6	Embedded template-assisted fabrication of complex microchannels in PDMS and design of a microfluidic adhesive. <i>Langmuir</i> , 2006 , 22, 10291-5	4	106
5	Measuring the work of adhesion between a soft confined film and a flexible plate. <i>Langmuir</i> , 2005 , 21, 1277-81	4	66
4	Peeling from a biomimetically patterned thin elastic film. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004 , 460, 2725-2735	2.4	163
3	Adhesion-Induced Instability Patterns in Thin Confined Elastic Film. <i>Langmuir</i> , 2003 , 19, 2621-2631	4	128
2	Meniscus instability in a thin elastic film. <i>Physical Review Letters</i> , 2000 , 85, 4329-32	7.4	177

- 1 Interfacial Rate Processes in Adhesion and Friction. *Journal of Physical Chemistry B*, **2000**, 104, 4018-4030.4 144