

# Jayati Sarkar

## List of Publications by Year in descending order

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26  
papers

538  
citations

759233

12  
h-index

642732

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterns, Forces, and Metastable Pathways in Debonding of Elastic Films. <i>Physical Review Letters</i> , 2004, 93, .	7.8	64
2	Electric-field induced instabilities and morphological phase transitions in soft elastic films. <i>Physical Review E</i> , 2008, 77, 031604.	2.1	55
3	A Unified Theory of Instabilities in Viscoelastic Thin Films: From Wetting to Confined Films, From Viscous to Elastic Films, and From Short to Long Waves. <i>Langmuir</i> , 2010, 26, 8464-8473.	3.5	53
4	Mechanical Strain Induced Tunable Anisotropic Wetting on Buckled PDMS Silver Nanorods Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8419-8426.	8.0	50
5	Contact Instability in Adhesion and Debonding of Thin Elastic Films. <i>Physical Review Letters</i> , 2006, 97, 018303.	7.8	46
6	CFD of mixing of multi-phase flow in a bioreactor using population balance model. <i>Biotechnology Progress</i> , 2016, 32, 613-628.	2.6	42
7	Adhesion and Debonding of Soft Elastic Films: Crack Patterns, Metastable Pathways, and Forces. <i>Langmuir</i> , 2005, 21, 1457-1469.	3.5	36
8	Spontaneous surface roughening induced by surface interactions between two compressible elastic films. <i>Physical Review E</i> , 2003, 67, 031607.	2.1	34
9	CFD based mass transfer modeling of a single use bioreactor for production of monoclonal antibody biotherapeutics. <i>Chemical Engineering Journal</i> , 2021, 412, 128592.	12.7	29
10	Adhesion and Debonding of Soft Elastic Films on Rough and Patterned Surfaces. <i>Journal of Adhesion</i> , 2005, 81, 271-295.	3.0	23
11	Application of CFD in Bioprocessing: Separation of mammalian cells using disc stack centrifuge during production of biotherapeutics. <i>Journal of Biotechnology</i> , 2018, 267, 1-11.	3.8	19
12	Contact Instability of a Soft Elastic Film Bonded to a Patterned Substrate. <i>Journal of Adhesion</i> , 2011, 87, 214-234.	3.0	18
13	Pattern formation in soft elastic films cast on periodically corrugated surfaces—a linear stability and finite element analysis. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 055003.	2.0	10
14	Squeezing instabilities and delamination in elastic bilayers: A linear stability analysis. <i>Physical Review E</i> , 2012, 86, 051604.	2.1	9
15	Miniaturized Pattern Formation in Elastic Films Cast on Sinusoidally Patterned Substrates. <i>Langmuir</i> , 2014, 30, 12278-12286.	3.5	8
16	Kinetically engendered subspinodal length scales in spontaneous dewetting of thin liquid films. <i>Physical Review E</i> , 2014, 90, 020401.	2.1	7
17	Selective adsorption of oil on self-organized surface patterns formed over soft thin PDMS films. <i>Chemical Engineering Science</i> , 2019, 207, 970-979.	3.8	7
18	Kinetics of sub-spinodal dewetting of thin films of thickness dependent viscosity. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 175001.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Hierarchical micro- and nanofabrication by pattern-directed contact instabilities of thin viscoelastic films. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	6
20	A finite element study of adhesion of soft thin elastic films cast on rough surfaces. <i>International Journal of Adhesion and Adhesives</i> , 2017, 79, 102-110.	2.9	4
21	Self-assembly of graphene nano-particles on biocompatible polymer through dewetting. <i>Surfaces and Interfaces</i> , 2021, 23, 101009.	3.0	4
22	Simulating Contact Instability in Soft Thin Films through Finite Element Techniques. , 2016, , .		3
23	Miniaturization of surface patterns in soft elastic film over patterned substrates. <i>Chemical Engineering Science</i> , 2019, 197, 195-203.	3.8	3
24	Miniaturized pattern formation in a soft elastically graded thin film in adhesive contact. <i>Chemical Engineering Science</i> , 2021, 236, 116516.	3.8	1
25	Dewetting assisted self-assembly of graphene nanoparticles by diverse approaches. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	1
26	Numerical modeling and development of a dual lung simulator using partitioned fluidâ€“structure interaction approach for ventilator testing. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, , e3607.	2.1	0