

# 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	Numerical modeling and development of a dual lung simulator using partitioned fluid–structure interaction approach for ventilator testing. International Journal for Numerical Methods in Biomedical Engineering, 2022, , e3607.	2.1	0
2	Self-assembly of graphene nano-particles on biocompatible polymer through dewetting. Surfaces and Interfaces, 2021, 23, 101009.	3.0	4
3	CFD based mass transfer modeling of a single use bioreactor for production of monoclonal antibody biotherapeutics. Chemical Engineering Journal, 2021, 412, 128592.	12.7	29
4	Miniaturized pattern formation in a soft elastically graded thin film in adhesive contact. Chemical Engineering Science, 2021, 236, 116516.	3.8	1
5	Dewetting assisted self-assembly of graphene nanoparticles by diverse approaches. Bulletin of Materials Science, 2021, 44, 1.	1.7	1
6	Selective adsorption of oil on self-organized surface patterns formed over soft thin PDMS films. Chemical Engineering Science, 2019, 207, 970-979.	3.8	7
7	Miniaturization of surface patterns in soft elastic film over patterned substrates. Chemical Engineering Science, 2019, 197, 195-203.	3.8	3
8	Application of CFD in Bioprocessing: Separation of mammalian cells using disc stack centrifuge during production of biotherapeutics. Journal of Biotechnology, 2018, 267, 1-11.	3.8	19
9	Kinetics of sub-spinodal dewetting of thin films of thickness dependent viscosity. Journal of Physics Condensed Matter, 2017, 29, 175001.	1.8	6
10	A finite element study of adhesion of soft thin elastic films cast on rough surfaces. International Journal of Adhesion and Adhesives, 2017, 79, 102-110.	2.9	4
11	Hierarchical micro- and nanofabrication by pattern-directed contact instabilities of thin viscoelastic films. Physical Review Fluids, 2017, 2, .	2.5	6
12	Simulating Contact Instability in Soft Thin Films through Finite Element Techniques. , 2016, , .		3
13	CFD of mixing of multi–phase flow in a bioreactor using population balance model. Biotechnology Progress, 2016, 32, 613-628.	2.6	42
14	Mechanical Strain Induced Tunable Anisotropic Wetting on Buckled PDMS Silver Nanorods Arrays. ACS Applied Materials & Interfaces, 2015, 7, 8419-8426.	8.0	50
15	Pattern formation in soft elastic films cast on periodically corrugated surfaces—a linear stability and finite element analysis. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 055003.	2.0	10
16	Kinetically engendered subspinodal length scales in spontaneous dewetting of thin liquid films. Physical Review E, 2014, 90, 020401.	2.1	7
17	Miniaturized Pattern Formation in Elastic Films Cast on Sinusoidally Patterned Substrates. Langmuir, 2014, 30, 12278-12286.	3.5	8
18	Squeezing instabilities and delamination in elastic bilayers: A linear stability analysis. Physical Review E, 2012, 86, 051604.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Contact Instability of a Soft Elastic Film Bonded to a Patterned Substrate. Journal of Adhesion, 2011, 87, 214-234.	3.0	18
20	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. Langmuir, 2010, 26, 8464-8473.	3.5	53
21	Electric-field induced instabilities and morphological phase transitions in soft elastic films. Physical Review E, 2008, 77, 031604.	2.1	55
22	Contact Instability in Adhesion and Debonding of Thin Elastic Films. Physical Review Letters, 2006, 97, 018303.	7.8	46
23	Adhesion and Debonding of Soft Elastic Films on Rough and Patterned Surfaces. Journal of Adhesion, 2005, 81, 271-295.	3.0	23
24	Adhesion and Debonding of Soft Elastic Films: Crack Patterns, Metastable Pathways, and Forces. Langmuir, 2005, 21, 1457-1469.	3.5	36
25	Patterns, Forces, and Metastable Pathways in Debonding of Elastic Films. Physical Review Letters, 2004, 93, .	7.8	64
26	Spontaneous surface roughening induced by surface interactions between two compressible elastic films. Physical Review E, 2003, 67, 031607.	2.1	34