

Brato Chakrabarti

List of Publications by Year in descending order

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Version: 2024-02-01

8
papers

233
citations

1307594

7
h-index

1588992

8
g-index

9
all docs

9
docs citations

9
times ranked

238
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological transitions of elastic filaments in shear flow. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9438-9443.	7.1	63
2	Spontaneous oscillations, beating patterns, and hydrodynamics of active microfilaments. Physical Review Fluids, 2019, 4, .	2.5	49
3	Flexible filaments buckle into helicoidal shapes in strong compressional flows. Nature Physics, 2020, 16, 689-694.	16.7	41
4	A multiscale biophysical model gives quantized metachronal waves in a lattice of beating cilia. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27
5	Hydrodynamic Synchronization of Spontaneously Beating Filaments. Physical Review Letters, 2019, 123, 208101.	7.8	26
6	Trapping, gliding, vaulting: transport of semiflexible polymers in periodic post arrays. Soft Matter, 2020, 16, 5534-5544.	2.7	13
7	Shear-induced dispersion in peristaltic flow. Physics of Fluids, 2020, 32, .	4.0	9
8	Signatures of elastoviscous buckling in the dilute rheology of stiff polymers. Journal of Fluid Mechanics, 2021, 919, .	3.4	5