

Debadi Chakraborty

List of Publications by Year in descending order

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18
papers

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759233

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18
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscoelastic Flows in Simple Liquids Generated by Vibrating Nanostructures. <i>Physical Review Letters</i> , 2013, 111, 244502.	7.8	88
2	Tuning the acoustic frequency of a gold nanodisk through its adhesion layer. <i>Nature Communications</i> , 2015, 6, 7022.	12.8	65
3	Optomechanics of Single Aluminum Nanodisks. <i>Nano Letters</i> , 2017, 17, 2575-2583.	9.1	50
4	Vibrational coupling in plasmonic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11621-11626.	7.1	49
5	Constitutive models for linear compressible viscoelastic flows of simple liquids at nanometer length scales. <i>Physics of Fluids</i> , 2015, 27, .	4.0	46
6	Compressible Viscoelastic Liquid Effects Generated by the Breathing Modes of Isolated Metal Nanowires. <i>Nano Letters</i> , 2015, 15, 3964-3970.	9.1	39
7	Vibration of Nanoparticles in Viscous Fluids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8536-8544.	3.1	36
8	Autonomous propulsion of nanorods trapped in an acoustic field. <i>Journal of Fluid Mechanics</i> , 2017, 825, 29-48.	3.4	36
9	Polycrystallinity of Lithographically Fabricated Plasmonic Nanostructures Dominates Their Acoustic Vibrational Damping. <i>Nano Letters</i> , 2018, 18, 3494-3501.	9.1	35
10	Large-scale parallelization of nanomechanical mass spectrometry with weakly-coupled resonators. <i>Nature Communications</i> , 2019, 10, 3647.	12.8	24
11	When Can the Elastic Properties of Simple Liquids Be Probed Using High-Frequency Nanoparticle Vibrations?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13347-13353.	3.1	18
12	Wrinkling of transversely loaded spinning membranes. <i>International Journal of Solids and Structures</i> , 2018, 139-140, 163-173.	2.7	14
13	Resonant frequencies of cantilevered sheets under various clamping configurations immersed in fluid. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	11
14	Measurement of Navier Slip on Individual Nanoparticles in Liquid. <i>Nano Letters</i> , 2021, 21, 4959-4965.	9.1	11
15	Viscoelasticity Enhances Nanometer-Scale Slip in Gigahertz-Frequency Liquid Flows. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3449-3455.	4.6	10
16	Squeeze-Film Effect on Atomically Thin Resonators in the High-Pressure Limit. <i>Nano Letters</i> , 2021, 21, 7617-7624.	9.1	5
17	Large-Area Nanofabrication of Partially Embedded Nanostructures for Enhanced Plasmonic Hot-Carrier Extraction. <i>ACS Applied Nano Materials</i> , 2019, 2, 1164-1169.	5.0	3
18	Autonomous propulsion of nanorods trapped in an acoustic field – CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	3.4	1