

Yoshihiro Murayama

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

482
citations

933447

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713466

21
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23
all docs

23
docs citations

23
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA cytoskeleton for stabilizing artificial cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7228-7233.	7.1	113
2	Elastic Response of Single DNA Molecules Exhibits a Reentrant Collapsing Transition. Physical Review Letters, 2003, 90, 018102.	7.8	98
3	Experimental study on the kinetics of granular gases under microgravity. Journal of Fluid Mechanics, 2009, 641, 521-539.	3.4	64
4	Experimental test of a new equality: Measuring heat dissipation in an optically driven colloidal system. Physical Review E, 2007, 75, 011122.	2.1	45
5	Increasing Elasticity through Changes in the Secondary Structure of Gelatin by Gelation in a Microsized Lipid Space. ACS Central Science, 2018, 4, 477-483.	11.3	29
6	Transition from Gaussian to Non-Gaussian Velocity Distribution Functions in a Vibrated Granular Bed. Journal of the Physical Society of Japan, 1998, 67, 1826-1829.	1.6	18
7	Cyclic Micropipette Aspiration Reveals Viscoelastic Change of a Gelatin Microgel Prepared Inside a Lipid Droplet. Langmuir, 2020, 36, 5186-5191.	3.5	17
8	Force Measurements of a Single DNA Molecule in the Collapsing Phase Transition. Journal of the Physical Society of Japan, 2001, 70, 345-348.	1.6	15
9	Dynamic force spectroscopy of a single condensed DNA. Europhysics Letters, 2007, 79, 58001.	2.0	13
10	Elastic Convection in Vibrated Viscoplastic Fluids. Physical Review Letters, 2007, 98, 044501.	7.8	12
11	Probing force-induced unfolding intermediates of a single staphylococcal nuclease molecule and the effect of ligand binding. Biochemical and Biophysical Research Communications, 2008, 375, 586-591.	2.1	10
12	Force-Fluctuation Relation of a Single DNA Molecule. Macromolecules, 2012, 45, 2857-2862.	4.8	10
13	Model of elastic responses of single DNA molecules in collapsing transition. Physical Review E, 2002, 66, 061912.	2.1	9
14	Exchange of counterions in DNA condensation. Biopolymers, 2005, 77, 354-360.	2.4	9
15	Nonlinear elasticity of single collapsed polyelectrolytes. Physical Review E, 2005, 72, 041803.	2.1	7
16	Simple method to measure and analyze the fluctuations of a small particle in biopolymer solutions. Review of Scientific Instruments, 2015, 86, 125105.	1.3	4
17	Length dependence of viscoelasticity of entangled-DNA solution with and without external stress. AIP Advances, 2018, 8, 105218.	1.3	3
18	Unfolding Dynamics of Single Collapsed DNA Molecules. Progress of Theoretical Physics Supplement, 2006, 165, 144-163.	0.1	2

#	ARTICLE	IF	CITATIONS
19	Experimental Study of the Freely Evolving Granular Gas under Microgravity Condition. AIP Conference Proceedings, 2008, , .	0.4	2
20	Visualization during Stick-Release and Plateau Responses of Collapsed DNA. Progress of Theoretical Physics Supplement, 2006, 161, 282-285.	0.1	1
21	Dynamic Features of Plectoneme Formation of Twisted DNA at Low Force. Journal of the Physical Society of Japan, 2018, 87, 093801.	1.6	1
22	Detection of change in elastic properties of a stretched DNA by using correlation functions of fluctuations. , 2013, , .		0
23	Deformation-Dependent Nonlinear Relaxation in Dense DNA Solutions. Journal of the Physical Society of Japan, 2022, 91, .	1.6	0