

Daisuke Mizuno

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,651
citations

20
h-index

40
g-index

50
ext. papers

1,862
ext. citations

4.4
avg, IF

4.49
L-index

#	Paper	IF	Citations
42	Nonlinear master relation in microscopic mechanical response of semiflexible biopolymer networks. <i>New Journal of Physics</i> , 2022 , 24, 053031	2.9	0
41	Noise-Induced Acceleration of Single Molecule Kinesin-1. <i>Physical Review Letters</i> , 2021 , 127, 178101	7.4	3
40	Experimental and theoretical energetics of walking molecular motors under fluctuating environments. <i>Biophysical Reviews</i> , 2020 , 12, 503-510	3.7	2
39	Biophysics at Kyushu University. <i>Biophysical Reviews</i> , 2020 , 12, 245-247	3.7	0
38	Optimization of Optical Trapping and Laser Interferometry in Biological Cells. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4970	2.6	1
37	Rapid local compression in active gels is caused by nonlinear network response. <i>Soft Matter</i> , 2020 , 16, 9369-9382	3.6	1
36	Measuring Dissipation of Molecular Motor Kinesin. <i>Seibutsu Butsuri</i> , 2019 , 59, 300-304	0	
35	Nonequilibrium Energetics of Molecular Motor Kinesin. <i>Physical Review Letters</i> , 2018 , 121, 218101	7.4	44
34	Non-Gaussian limit fluctuations in active swimmer suspensions. <i>Physical Review E</i> , 2017 , 95, 030601	2.4	7
33	Feedback-tracking microrheology in living cells. <i>Science Advances</i> , 2017 , 3, e1700318	14.3	32
32	Universal glass-forming behavior of in vitro and living cytoplasm. <i>Scientific Reports</i> , 2017 , 7, 15143	4.9	37
31	Analytical Limit Distributions from Random Power-Law Interactions. <i>Physical Review Letters</i> , 2016 , 117, 030602	7.4	10
30	Athermal Fluctuations of Probe Particles in Active Cytoskeletal Network. <i>Biophysical Journal</i> , 2014 , 106, 171a	2.9	2
29	High-frequency affine mechanics and nonaffine relaxation in a model cytoskeleton. <i>Physical Review E</i> , 2014 , 89, 042711	2.4	10
28	Local mechanical response in semiflexible polymer networks subjected to an axisymmetric prestress. <i>Physical Review E</i> , 2013 , 88, 022717	2.4	6
27	2P180 Molecular crowding effects on intracellular mechanical environments(12. Cell biology,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S188	0	
26	2P218 Generation of artificial cells that mimic living cells(13B. Biological & Artificial membrane: Dynamics,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S195	0	

25	High-resolution microrheology in the pericellular matrix of prostate cancer cells. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1733-44	4.1	20
24	Non-Gaussian athermal fluctuations in active gels. <i>Soft Matter</i> , 2011 , 7, 3234	3.6	92
23	Exploring the Physical Calibration Mechanism for Cellular Mechano-sensing. <i>Seibutsu Butsuri</i> , 2011 , 51, 014-017	0	
22	Nonlocal fluctuation correlations in active gels. <i>Physical Review E</i> , 2010 , 81, 041910	2.4	24
21	High-resolution probing of cellular force transmission. <i>Physical Review Letters</i> , 2009 , 102, 168102	7.4	68
20	Viscoelastic response of a model endothelial glycocalyx. <i>Physical Biology</i> , 2009 , 6, 025014	3	22
19	Microrheology of hyaluronan solutions: implications for the endothelial glycocalyx. <i>Biomacromolecules</i> , 2008 , 9, 2390-8	6.9	22
18	Active and Passive Microrheology in Equilibrium and Nonequilibrium Systems. <i>Macromolecules</i> , 2008 , 41, 7194-7202	5.5	125
17	High-bandwidth viscoelastic properties of aging colloidal glasses and gels. <i>Physical Review E</i> , 2008 , 78, 061402	2.4	26
16	Short-time inertial response of viscoelastic fluids measured with Brownian motion and with active probes. <i>Physical Review E</i> , 2008 , 77, 061508	2.4	25
15	Effective temperatures from the fluctuation-dissipation measurements in soft glassy materials. <i>Europhysics Letters</i> , 2008 , 84, 20006	1.6	20
14	Round versus flat: bone cell morphology, elasticity, and mechanosensing. <i>Journal of Biomechanics</i> , 2008 , 41, 1590-8	2.9	110
13	Microrheology of a Swollen Lyotropic Lamellar Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2007 , 478, 3/[759]-13/[769]	0.5	5
12	Fluctuation-dissipation theorem in an aging colloidal glass. <i>Physical Review Letters</i> , 2007 , 98, 108302	7.4	63
11	Nonequilibrium mechanics of active cytoskeletal networks. <i>Science</i> , 2007 , 315, 370-3	33.3	663
10	Bio imaging of intracellular NO production in single bone cells after mechanical stimulation. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 1722-8	6.3	64
9	Hierarchical Dynamics of Nano-Particles in Lyotropic Lamellar Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 435, 51/[711]-61/[721]	0.5	1
8	Hierarchical transport of nanoparticles in a lyotropic lamellar phase. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S2937-S2942	1.8	9

7	Electrophoretic microrheology of a dilute lamellar phase: relaxation mechanisms in frequency-dependent mobility of nanometer-sized particles between soft membranes. <i>Physical Review E</i> , 2004 , 70, 011509	2.4	24
6	Dielectric response in dilute lyotropic lamellar and sponge phases of a nonionic surfactant. <i>Physical Review E</i> , 2003 , 67, 061505	2.4	9
5	Measurement of liquid surface properties by laser-induced surface deformation spectroscopy. <i>Physical Review E</i> , 2001 , 63, 046302	2.4	43
4	Electrophoretic microrheology in a dilute lamellar phase of a nonionic surfactant. <i>Physical Review Letters</i> , 2001 , 87, 088104	7.4	33
3	New Measurement Method of Complex Electrophoretic Mobility of Charged Colloids by Quasi-Elastic Light Scattering. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, L1197-L1199	1.4	2
2	Observation of Slow Dynamics on a Liquid Surface by Time-Resolved Ripplon Light-Scattering Spectroscopy. <i>Langmuir</i> , 2000 , 16, 643-648	4	5
1	Dynamic Electrophoretic Mobility of Colloidal Particles Measured by the Newly Developed Method of Quasi-elastic Light Scattering in a Sinusoidal Electric Field. <i>Langmuir</i> , 2000 , 16, 9547-9554	4	19