Daisuke Mizuno

List of Publications by Citations

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	Nonequilibrium mechanics of active cytoskeletal networks. *Science*, **2007**, 315, 370-3	33.3	663
41	Active and Passive Microrheology in Equilibrium and Nonequilibrium Systems. *Macromolecules*, **2008**, 41, 7194-7202	5.5	125
40	Round versus flat: bone cell morphology, elasticity, and mechanosensing. *Journal of Biomechanics*, **2008**, 41, 1590-8	2.9	110
39	Non-Gaussian athermal fluctuations in active gels. *Soft Matter*, **2011**, 7, 3234	3.6	92
38	High-resolution probing of cellular force transmission. *Physical Review Letters*, **2009**, 102, 168102	7.4	68
37	Bio imaging of intracellular NO production in single bone cells after mechanical stimulation. *Journal of Bone and Mineral Research*, **2006**, 21, 1722-8	6.3	64
36	Fluctuation-dissipation theorem in an aging colloidal glass. *Physical Review Letters*, **2007**, 98, 108302	7.4	63
35	Nonequilibrium Energetics of Molecular Motor Kinesin. *Physical Review Letters*, **2018**, 121, 218101	7.4	44
34	Measurement of liquid surface properties by laser-induced surface deformation spectroscopy. *Physical Review E*, **2001**, 63, 046302	2.4	43
33	Universal glass-forming behavior of in vitro and living cytoplasm. *Scientific Reports*, **2017**, 7, 15143	4.9	37
32	Electrophoretic microrheology in a dilute lamellar phase of a nonionic surfactant. *Physical Review Letters*, **2001**, 87, 088104	7.4	33
31	Feedback-tracking microrheology in living cells. *Science Advances*, **2017**, 3, e1700318	14.3	32
30	High-bandwidth viscoelastic properties of aging colloidal glasses and gels. *Physical Review E*, **2008**, 78, 061402	2.4	26
29	Short-time inertial response of viscoelastic fluids measured with Brownian motion and with active probes. *Physical Review E*, **2008**, 77, 061508	2.4	25
28	Nonlocal fluctuation correlations in active gels. *Physical Review E*, **2010**, 81, 041910	2.4	24
27	Electrophoretic microrheology of a dilute lamellar phase: relaxation mechanisms in frequency-dependent mobility of nanometer-sized particles between soft membranes. *Physical Review E*, **2004**, 70, 011509	2.4	24
26	Viscoelastic response of a model endothelial glycocalyx. *Physical Biology*, **2009**, 6, 025014	3	22

25	Microrheology of hyaluronan solutions: implications for the endothelial glycocalyx. *Biomacromolecules*, **2008**, 9, 2390-8	6.9	22
24	High-resolution microrheology in the pericellular matrix of prostate cancer cells. *Journal of the Royal Society Interface*, **2012**, 9, 1733-44	4.1	20
23	Effective temperatures from the fluctuation-dissipation measurements in soft glassy materials. *Europhysics Letters*, **2008**, 84, 20006	1.6	20
22	Dynamic Electrophoretic Mobility of Colloidal Particles Measured by the Newly Developed Method of Quasi-elastic Light Scattering in a Sinusoidal Electric Field. *Langmuir*, **2000**, 16, 9547-9554	4	19
21	Analytical Limit Distributions from Random Power-Law Interactions. *Physical Review Letters*, **2016**, 117, 030602	7.4	10
20	High-frequency affine mechanics and nonaffine relaxation in a model cytoskeleton. *Physical Review E*, **2014**, 89, 042711	2.4	10
19	Dielectric response in dilute lyotropic lamellar and sponge phases of a nonionic surfactant. *Physical Review E*, **2003**, 67, 061505	2.4	9
18	Hierarchical transport of nanoparticles in a lyotropic lamellar phase. *Journal of Physics Condensed Matter*, **2005**, 17, S2937-S2942	1.8	9
17	Non-Gaussian limit fluctuations in active swimmer suspensions. *Physical Review E*, **2017**, 95, 030601	2.4	7
16	Local mechanical response in semiflexible polymer networks subjected to an axisymmetric prestress. *Physical Review E*, **2013**, 88, 022717	2.4	6
15	Microrheology of a Swollen Lyotropic Lamellar Phase. *Molecular Crystals and Liquid Crystals*, **2007**, 478, 3/[759]-13/[769]	0.5	5
14	Observation of Slow Dynamics on a Liquid Surface by Time-Resolved Ripplon Light-Scattering Spectroscopy. *Langmuir*, **2000**, 16, 643-648	4	5
13	Noise-Induced Acceleration of Single Molecule Kinesin-1. *Physical Review Letters*, **2021**, 127, 178101	7.4	3
12	Experimental and theoretical energetics of walking molecular motors under fluctuating environments. *Biophysical Reviews*, **2020**, 12, 503-510	3.7	2
11	Athermal Fluctuations of Probe Particles in Active Cytoskeletal Network. *Biophysical Journal*, **2014**, 106, 171a	2.9	2
10	New Measurement Method of Complex Electrophoretic Mobility of Charged Colloids by Quasi-Elastic Light Scattering. *Japanese Journal of Applied Physics*, **2000**, 39, L1197-L1199	1.4	2
9	Hierarchical Dynamics of Nano-Particles in Lyotropic Lamellar Phase. *Molecular Crystals and Liquid Crystals*, **2005**, 435, 51/[711]-61/[721]	0.5	1
8	Optimization of Optical Trapping and Laser Interferometry in Biological Cells. *Applied Sciences (Switzerland)*, **2020**, 10, 4970	2.6	1

7	Rapid local compression in active gels is caused by nonlinear network response. *Soft Matter*, **2020**, 16, 9369-9382	3.6	1
6	Biophysics at Kyushu University. *Biophysical Reviews*, **2020**, 12, 245-247	3.7	0
5	Nonlinear master relation in microscopic mechanical response of semiflexible biopolymer networks. *New Journal of Physics*, **2022**, 24, 053031	2.9	0
4	2P180 Molecular crowding effects on intracellular mechanical environments(12. Cell biology,Poster). *Seibutsu Butsuri*, **2013**, 53, S188	0	
3	2P218 Generation of artificial cells that mimic living cells(13B. Biological & Artifical membrane: Dynamics,Poster). *Seibutsu Butsuri*, **2013**, 53, S195	0	
2	Measuring Dissipation of Molecular Motor Kinesin. *Seibutsu Butsuri*, **2019**, 59, 300-304	0	
1	Exploring the Physical Calibration Mechanism for Cellular Mechano-sensing. *Seibutsu Butsuri*, **2011**, 51, 014-017	0	