

# Masatoshi Ichikawa

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,306  
citations

361413

20  
h-index

395702

33  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1813  
citing authors

#	ARTICLE	IF	CITATIONS
1	Straight-to-Curvilinear Motion Transition of a Swimming Droplet Caused by the Susceptibility to Fluctuations. <i>Physical Review Letters</i> , 2021, 127, 088005.	7.8	28
2	Fluid Dynamic Model Reveals a Mechano-sensing System Underlying the Behavior of Ciliates. <i>Seibutsu Butsuru</i> , 2021, 61, 016-019.	0.1	1
3	Swimming droplets in 1D geometries: an active Bretherton problem. <i>Soft Matter</i> , 2021, 17, 6646-6660.	2.7	11
4	Near-wall rheotaxis of the ciliate <i>Tetrahymena</i> induced by the kinesthetic sensing of cilia. <i>Science Advances</i> , 2021, 7, eabi5878.	10.3	12
5	Accumulation of <i>Tetrahymena pyriformis</i> on Interfaces. <i>Micromachines</i> , 2021, 12, 1339.	2.9	6
6	Force generation by a propagating wave of supramolecular nanofibers. <i>Nature Communications</i> , 2020, 11, 3541.	12.8	24
7	Repulsive/attractive interaction among compact DNA molecules as judged through laser trapping: difference between linear- and branched-chain polyamines. <i>Colloid and Polymer Science</i> , 2019, 297, 397-407.	2.1	5
8	Simple mechanosense and response of cilia motion reveal the intrinsic habits of ciliates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3231-3236.	7.1	39
9	Influence of cellular shape on sliding behavior of ciliates. <i>Communicative and Integrative Biology</i> , 2018, 11, e1506666.	1.4	15
10	Self-propelled motion switching in nematic liquid crystal droplets in aqueous surfactant solutions. <i>Physical Review E</i> , 2018, 97, 062703.	2.1	50
11	Fabrication of Gold Microwires by Drying Gold Nanorods Suspensions. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601125.	3.7	3
12	Active Materials Integrated with Actomyosin. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 101001.	1.6	2
13	Geometry-driven collective ordering of bacterial vortices. <i>Soft Matter</i> , 2017, 13, 5038-5043.	2.7	56
14	Direct observations of transition dynamics from macro- to micro-phase separation in asymmetric lipid bilayers induced by externally added glycolipids. <i>Europhysics Letters</i> , 2016, 113, 56005.	2.0	20
15	Noise-supported actuator: Coherent resonance in the oscillations of a micrometer-sized object under a direct current-voltage. <i>Applied Physics Letters</i> , 2016, 108, 144101.	3.3	2
16	Non-periodic oscillatory deformation of an actomyosin microdroplet encapsulated within a lipid interface. <i>Scientific Reports</i> , 2016, 6, 18964.	3.3	16
17	Molecular behavior of DNA in a cell-sized compartment coated by lipids. <i>Physical Review E</i> , 2015, 91, 062717.	2.1	16
18	Dynamic clustering of driven colloidal particles on a circular path. <i>Physical Review E</i> , 2015, 92, 032303.	2.1	8

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19	Wrinkling of a spherical lipid interface induced by actomyosin cortex. <i>Physical Review E</i> , 2015, 92, 062711.	2.1	9
20	Mode bifurcation of a bouncing dumbbell with chirality. <i>Physical Review E</i> , 2015, 91, 052905.	2.1	12
21	Oscillation and collective conveyance of water-in-oil droplets by microfluidic bolus flow. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	6
22	Dynamics of microdroplets over the surface of hot water. <i>Scientific Reports</i> , 2015, 5, 8046.	3.3	26
23	Dropletâ€“Shooting and Sizeâ€“Filtration (DSSF) Method for Synthesis of Cellâ€“Sized Liposomes with Controlled Lipid Compositions. <i>ChemBioChem</i> , 2015, 16, 2029-2035.	2.6	42
24	Quantification of the Influence of Endotoxins on the Mechanics of Adult and Neonatal Red Blood Cells. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7837-7845.	2.6	10
25	Communication: Mode bifurcation of droplet motion under stationary laser irradiation. <i>Journal of Chemical Physics</i> , 2014, 141, 051103.	3.0	16
26	Microrheology of polysaccharide nanogel-integrated system. <i>Colloid and Polymer Science</i> , 2014, 292, 325-331.	2.1	5
27	Emergence of DNA-Encapsulating Liposomes from a DNAâ€“Lipid Blend Film. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10688-10694.	2.6	5
28	Dynamical formation of lipid bilayer vesicles from lipid-coated droplets across a planar monolayer at an oil/water interface. <i>Soft Matter</i> , 2013, 9, 9539.	2.7	23
29	Rotational motion of a droplet induced by interfacial tension. <i>Physical Review E</i> , 2013, 87, 013009.	2.1	23
30	Structural Change of DNA Induced by Nucleoid Proteins: Growth Phase-Specific Fis and Stationary Phase-Specific Dps. <i>Biophysical Journal</i> , 2013, 105, 1037-1044.	0.5	23
31	Plasmonic Imaging of Brownian Motion of Single DNA Molecules Spontaneously Binding to Ag Nanoparticles. <i>Nano Letters</i> , 2013, 13, 1877-1882.	9.1	14
32	Physicochemical Analysis from Real-Time Imaging of Liposome Tubulation Reveals the Characteristics of Individual F-BAR Domain Proteins. <i>Langmuir</i> , 2013, 29, 328-336.	3.5	42
33	Back-and-forth micromotion of aqueous droplets in a dc electric field. <i>Physical Review E</i> , 2013, 88, 042918.	2.1	22
34	Controlling negative and positive photothermal migration of centimeter-sized droplets. <i>Physical Review E</i> , 2013, 88, 012403.	2.1	20
35	Reconstruction of Active Regular Motion in Amoeba Extract: Dynamic Cooperation between Sol and Gel States. <i>PLoS ONE</i> , 2013, 8, e70317.	2.5	22
36	How environmental solution conditions determine the compaction velocity of single DNA molecules. <i>Nucleic Acids Research</i> , 2012, 40, 284-289.	14.5	153

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37	Emergence of a thread-like pattern with charged phospholipids on an oil/water interface. Journal of Chemical Physics, 2012, 136, 204903.	3.0	4
38	Direct measurement of single soft lipid nanotubes: Nanoscale information extracted in a noninvasive manner. Physical Review E, 2012, 86, 061905.	2.1	11
39	Micro-segregation induced by bulky-head lipids: formation of characteristic patterns in a giant vesicle. Soft Matter, 2012, 8, 488-495.	2.7	16
40	Phase separation in crowded micro-spheroids: DNA-PEG system. Chemical Physics Letters, 2012, 539-540, 157-162.	2.6	63
41	Phase behavior of crowded like-charged mixed polyelectrolytes in a cell-sized sphere. Physical Review E, 2011, 83, 061921.	2.1	26
42	Interparticle force in nematic colloids: Comparison between experiment and theory. Physical Review E, 2011, 84, 021704.	2.1	16
43	Spontaneous mode-selection in the self-propelled motion of a solid/liquid composite driven by interfacial instability. Journal of Chemical Physics, 2011, 134, 114704.	3.0	47
44	1P134 Difference in the action of Escherichia Coli nucleoid proteins, Fis and Dps, on DNA conformation(Nucleic acid:Interaction & Complex formation,The 48th Annual Meeting of the Tj ETQq0 0 0 rgBT1/Overlook 10 Tf 50		
45	Arrangement dependence of interparticle force in nematic colloids. Physical Review E, 2010, 81, 010701.	2.1	19
46	Crossover behavior in static and dynamic properties of a single DNA molecule from three to quasi-two dimensions. Physical Review E, 2010, 81, 051801.	2.1	19
47	Local mechanical properties of a hyperswollen lyotropic lamellar phase. Physical Review E, 2010, 82, 021506.	2.1	16
48	Radius-dependent phase behavior: Giant DNA and alginate in a cell sized sphere. , 2010, , .		0
49	Mechanical properties of a giant liposome studied using optical tweezers. Chemical Physics Letters, 2009, 479, 274-278.	2.6	24
50	Extension and measurements on multicomponent phospholipid vesicles by use of dual-beam optical tweezers. , 2009, , .		1
51	Direct measurement of force between colloidal particles in a nematic liquid crystal. Journal of Physics Condensed Matter, 2008, 20, 075106.	1.8	20
52	Extension and measurements on a phospholipid vesicle by use of dual-beam optical tweezers. , 2008, , .		1
53	Tilt control in optical tweezers. Journal of Biomedical Optics, 2008, 13, 010503.	2.6	12
54	Self-assembly of polymer droplets in a nematic liquid crystal at phase separation. Physical Review E, 2008, 77, 041702.	2.1	15

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55	Force between colloidal particles in a nematic liquid crystal studied by optical tweezers. Physical Review E, 2008, 77, 020703.	2.1	68
56	Extension of a DNA Molecule by Local Heating with a Laser. Physical Review Letters, 2007, 99, 148104.	7.8	25
57	Direct Measurement of Interaction Between Colloidal Particles in Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2007, 475, 183-192.	0.9	0
58	Single cell manipulation by using tilt controlled optical tweezers. , 2007, , .		1
59	Nonlinear Dielectric Spectroscopy of MHPOBC. Molecular Crystals and Liquid Crystals, 2007, 477, 195-204.	0.9	1
60	Nonlinear Dielectric Study of Critical Behavior Near Isotropic-Nematic Phase Transition. Molecular Crystals and Liquid Crystals, 2007, 477, 77-85.	0.9	1
61	Dynamic study of micro-domains on a phospholipid bilayer membrane. , 2006, , .		1
62	Entrapping Polymer Chain in Light Well under Good Solvent Condition. Journal of the Physical Society of Japan, 2005, 74, 1958-1961.	1.6	14
63	Micro-fabrication with nanoparticles: Assembling DNA molecules by a focused laser. , 2005, , 127-131.		0
64	Molecular assembly under a focused laser. AIP Conference Proceedings, 2004, , .	0.4	0
65	Molecular Fabrication: Å Aligning DNA Molecules as Building Blocks. Langmuir, 2003, 19, 5444-5447.	3.5	28
66	Optically driven transport into a living cell. Applied Physics Letters, 2003, 83, 2468-2470.	3.3	13
67	Rhythmic bursting in a cluster of microbeads driven by a continuous-wave laser beam. Physical Review E, 2002, 65, 045202.	2.1	8
68	Optical transport of a single cell-sized liposome. Applied Physics Letters, 2001, 79, 4598-4600.	3.3	49