Masatoshi Ichikawa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5432340/publications.pdf

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68	1,306	361413	395702
papers	citations	20 h-index	33 g-index

69	69	69	1813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How environmental solution conditions determine the compaction velocity of single DNA molecules. Nucleic Acids Research, 2012, 40, 284-289.	14.5	153
2	Force between colloidal particles in a nematic liquid crystal studied by optical tweezers. Physical Review E, 2008, 77, 020703.	2.1	68
3	Phase separation in crowded micro-spheroids: DNAâ€“PEG system. Chemical Physics Letters, 2012, 539-540, 157-162.	2.6	63
4	Geometry-driven collective ordering of bacterial vortices. Soft Matter, 2017, 13, 5038-5043.	2.7	56
5	Self-propelled motion switching in nematic liquid crystal droplets in aqueous surfactant solutions. Physical Review E, 2018, 97, 062703.	2.1	50
6	Optical transport of a single cell-sized liposome. Applied Physics Letters, 2001, 79, 4598-4600.	3.3	49
7	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
8	Physicochemical Analysis from Real-Time Imaging of Liposome Tubulation Reveals the Characteristics of Individual F-BAR Domain Proteins. Langmuir, 2013, 29, 328-336.	3.5	42
9	Dropletâ€Shooting and Sizeâ€Filtration (DSSF) Method for Synthesis of Cellâ€Sized Liposomes with Controlled Lipid Compositions. ChemBioChem, 2015, 16, 2029-2035.	2.6	42
10	Simple mechanosense and response of cilia motion reveal the intrinsic habits of ciliates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3231-3236.	7.1	39
11	Molecular Fabrication:Â Aligning DNA Molecules as Building Blocks. Langmuir, 2003, 19, 5444-5447.	3.5	28
12	Straight-to-Curvilinear Motion Transition of a Swimming Droplet Caused by the Susceptibility to Fluctuations. Physical Review Letters, 2021, 127, 088005.	7.8	28
13	Phase behavior of crowded like-charged mixed polyelectrolytes in a cell-sized sphere. Physical Review E, 2011, 83, 061921.	2.1	26
14	Dynamics of microdroplets over the surface of hot water. Scientific Reports, 2015, 5, 8046.	3.3	26
15	Extension of a DNA Molecule by Local Heating with a Laser. Physical Review Letters, 2007, 99, 148104.	7.8	25
16	Mechanical properties of a giant liposome studied using optical tweezers. Chemical Physics Letters, 2009, 479, 274-278.	2.6	24
17	Force generation by a propagating wave of supramolecular nanofibers. Nature Communications, 2020, 11, 3541.	12.8	24
18	Dynamical formation of lipid bilayer vesicles from lipid-coated droplets across a planar monolayer at an oil/water interface. Soft Matter, 2013, 9, 9539.	2.7	23

#	Article	IF	Citations
19	Rotational motion of a droplet induced by interfacial tension. Physical Review E, 2013, 87, 013009.	2.1	23
20	Structural Change of DNA Induced by Nucleoid Proteins: Growth Phase-Specific Fis and Stationary Phase-Specific Dps. Biophysical Journal, 2013, 105, 1037-1044.	0.5	23
21	Back-and-forth micromotion of aqueous droplets in a dc electric field. Physical Review E, 2013, 88, 042918.	2.1	22
22	Reconstruction of Active Regular Motion in Amoeba Extract: Dynamic Cooperation between Sol and Gel States. PLoS ONE, 2013, 8, e70317.	2.5	22
23	Direct measurement of force between colloidal particles in a nematic liquid crystal. Journal of Physics Condensed Matter, 2008, 20, 075106.	1.8	20
24	Controlling negative and positive photothermal migration of centimeter-sized droplets. Physical Review E, 2013, 88, 012403.	2.1	20
25	Direct observations of transition dynamics from macro- to micro-phase separation in asymmetric lipid bilayers induced by externally added glycolipids. Europhysics Letters, 2016, 113, 56005.	2.0	20
26	Arrangement dependence of interparticle force in nematic colloids. Physical Review E, 2010, 81, 010701.	2.1	19
27	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
28	Local mechanical properties of a hyperswollen lyotropic lamellar phase. Physical Review E, 2010, 82, 021506.	2.1	16
29	Interparticle force in nematic colloids: Comparison between experiment and theory. Physical Review E, 2011, 84, 021704.	2.1	16
30	Micro-segregation induced by bulky-head lipids: formation of characteristic patterns in a giant vesicle. Soft Matter, 2012, 8, 488-495.	2.7	16
31	Communication: Mode bifurcation of droplet motion under stationary laser irradiation. Journal of Chemical Physics, 2014, 141, 051103.	3.0	16
32	Molecular behavior of DNA in a cell-sized compartment coated by lipids. Physical Review E, 2015, 91, 062717.	2.1	16
33	Non-periodic oscillatory deformation of an actomyosin microdroplet encapsulated within a lipid interface. Scientific Reports, 2016, 6, 18964.	3.3	16
34	Self-assembly of polymer droplets in a nematic liquid crystal at phase separation. Physical Review E, 2008, 77, 041702.	2.1	15
35	Influence of cellular shape on sliding behavior of ciliates. Communicative and Integrative Biology, 2018, 11, e1506666.	1.4	15
36	Entrapping Polymer Chain in Light Well under Good Solvent Condition. Journal of the Physical Society of Japan, 2005, 74, 1958-1961.	1.6	14

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37	Plasmonic Imaging of Brownian Motion of Single DNA Molecules Spontaneously Binding to Ag Nanoparticles. Nano Letters, 2013, 13, 1877-1882.	9.1	14
38	Optically driven transport into a living cell. Applied Physics Letters, 2003, 83, 2468-2470.	3.3	13
39	Tilt control in optical tweezers. Journal of Biomedical Optics, 2008, 13, 010503.	2.6	12
40	Mode bifurcation of a bouncing dumbbell with chirality. Physical Review E, 2015, 91, 052905.	2.1	12
41	Near-wall rheotaxis of the ciliate Tetrahymena induced by the kinesthetic sensing of cilia. Science Advances, 2021, 7, eabi5878.	10.3	12
42	Direct measurement of single soft lipid nanotubes: Nanoscale information extracted in a noninvasive manner. Physical Review E, 2012, 86, 061905.	2.1	11
43	Swimming droplets in 1D geometries: an active Bretherton problem. Soft Matter, 2021, 17, 6646-6660.	2.7	11
44	Quantification of the Influence of Endotoxins on the Mechanics of Adult and Neonatal Red Blood Cells. Journal of Physical Chemistry B, 2015, 119, 7837-7845.	2.6	10
45	Wrinkling of a spherical lipid interface induced by actomyosin cortex. Physical Review E, 2015, 92, 062711.	2.1	9
46	Rhythmic bursting in a cluster of microbeads driven by a continuous-wave laser beam. Physical Review E, 2002, 65, 045202.	2.1	8
47	Dynamic clustering of driven colloidal particles on a circular path. Physical Review E, 2015, 92, 032303.	2.1	8
48	Oscillation and collective conveyance of water-in-oil droplets by microfluidic bolus flow. Applied Physics Letters, 2015, 107, .	3.3	6
49	Accumulation of Tetrahymena pyriformis on Interfaces. Micromachines, 2021, 12, 1339.	2.9	6
50	Microrheology of polysaccharide nanogel-integrated system. Colloid and Polymer Science, 2014, 292, 325-331.	2.1	5
51	Emergence of DNA-Encapsulating Liposomes from a DNAâ€“Lipid Blend Film. Journal of Physical Chemistry B, 2014, 118, 10688-10694.	2.6	5
52	Repulsive/attractive interaction among compact DNA molecules as judged through laser trapping: difference between linear- and branched-chain polyamines. Colloid and Polymer Science, 2019, 297, 397-407.	2.1	5
53	Emergence of a thread-like pattern with charged phospholipids on an oil/water interface. Journal of Chemical Physics, 2012, 136, 204903.	3.0	4
54	Fabrication of Gold Microwires by Drying Gold Nanorods Suspensions. Advanced Materials Interfaces, 2017, 4, 1601125.	3.7	3

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55	Noise-supported actuator: Coherent resonance in the oscillations of a micrometer-sized object under a direct current-voltage. Applied Physics Letters, 2016, 108, 144101.	3.3	2
56	Active Materials Integrated with Actomyosin. Journal of the Physical Society of Japan, 2017, 86, 101001.	1.6	2
57	Dynamic study of micro-domains on a phospholipid bilayer membrane. , 2006, , .		1
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	Extension and measurements on a phospholipid vesicle by use of dual-beam optical tweezers. , 2008, , .		1
62	Extension and measurements on multicomponent phospholipid vesicles by use of dual-beam optical tweezers. , 2009, , .		1
63	Fluid Dynamic Model Reveals a Mechano-sensing System Underlying the Behavior of Ciliates. Seibutsu Butsuri, 2021, 61, 016-019.	0.1	1
64	Molecular assembly under a focused laser. AIP Conference Proceedings, 2004, , .	0.4	0
65	Micro-fabrication with nanoparticles: Assembling DNA molecules by a focused laser. , 2005, , 127-131.		0
66	Direct Measurement of Interaction Between Colloidal Particles in Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2007, 475, 183-192.	0.9	0
67	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 ETQq1 1 0.784314 rgBT /Overlo		
68	Radius-dependent phase behavior: Giant DNA and alginate in a cell sized sphere. , 2010, , .		0