Miho Yanagisawa

List of Publications by Year
in descending order

50 papers	1,451 citations	331670 21 h-index	330143 37 g-index
54 all docs	54 docs citations	54 times ranked	1533 citing authors

#	Article	IF	Citations
1	Evaporation Patterns of Dextranâ€“Poly(Ethylene Glycol) Droplets with Changes in Wettability and Compatibility. Life, 2022, 12, 373.	2.4	6
2	Perpendicular alignment of the phase-separated boundary in adhered polymer droplets. Soft Matter, 2021, 17, 9499-9506.	2.7	1
3	Simultaneous crosslinking induces macroscopically phase-separated microgel from a homogeneous mixture of multiple polymers. Applied Materials Today, 2021, 22, 100937.	4.3	8
4	Membrane Surface Modulates Slow Diffusion in Small Crowded Droplets. Langmuir, 2021, 37, 437-444.	3.5	12
5	Microfluidic Formation of Honeycomb-Patterned Droplets Bounded by Interface Bilayers via Bimodal Molecular Adsorption. Micromachines, 2020, 11, 701.	2.9	13
6	Liposomal adhesion <i>via</i> electrostatic interactions and osmotic deflation increase membrane tension and lipid diffusion coefficient. Soft Matter, 2020, 16, 4549-4554.	2.7	11
7	Quantitative Analysis of Membrane Surface and Small Confinement Effects on Molecular Diffusion. Journal of Physical Chemistry B, 2020, 124, 1090-1098.	2.6	16
8	Cyclic Micropipette Aspiration Reveals Viscoelastic Change of a Gelatin Microgel Prepared Inside a Lipid Droplet. Langmuir, 2020, 36, 5186-5191.	3.5	17
9	Unique phase behavior in cell size space: synergistic effect of molecular crowding and confinement. Biophysical Reviews, 2020, 12, 385-386.	3.2	3
10	Visualizing Molecular Chaperone Controlled Resilient Cell Traction Force by Micropost Arrays Fabricated by Two-Photon Initiated Polymerization. Journal of Fiber Science and Technology, 2020, 76, 288-295.	0.4	0
11	DNA Origami Nanoplateâ€Based Emulsion with Nanopore Function. Angewandte Chemie - International Edition, 2019, 58, 15299-15303.	13.8	15
12	Lipid Membrane Effect on the Elasticity of Gelatin Microgel Prepared inside Lipid Microdroplets. Nihon Reoroji Gakkaishi, 2019, 47, 55-59.	1.0	3
13	DNA Origami Nanoplateâ€Based Emulsion with Nanopore Function. Angewandte Chemie, 2019, 131, 15443-15447.	2.0	2
14	Solâ€“Gel Coexisting Phase of Polymer Microgels Triggers Spontaneous Buckling. Langmuir, 2019, 35, 2283-2288.	3.5	4
15	Cell-sized confinement controls generation and stability of a protein wave for spatiotemporal regulation in cells. ELife, 2019, 8, .	6.0	43
16	Basic Challenges for Liposome Applications and Their Possible Solutions: Membrane Structure and Confinement. Membrane, 2019, 44, 234-238.	0.0	0
17	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
18	Cell-size confinement effect on protein diffusion in crowded poly(ethylene)glycol solution. Physical Chemistry Chemical Physics, 2018, 20, 8842-8847.	2.8	24

#	Article	IF	Citations
19	Dynamics of Spinodal Decomposition in a Ternary Gelling System. Gels, 2018, 4, 26.	4.5	5
20	Single Micrometer-Sized Gels: Unique Mechanics and Characters for Applications. Gels, 2018, 4, 29.	4.5	10
21	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
22	Universal glass-forming behavior of in vitro and living cytoplasm. Scientific Reports, 2017, 7, 15143.	3.3	63
23	Liposomal internal viscosity affects the fate of membrane deformation induced by hypertonic treatment. Soft Matter, 2017, 13, 9192-9198.	2.7	8
24	Microdroplets as a Model System for the Study of Macromolecular Crowding in Cells. Seibutsu Butsuri, 2015, 55, 246-249.	0.1	0
25	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
26	Enzymatic synthesis of hyaluronan hybrid urinary trypsin inhibitor. Carbohydrate Research, 2015, 413, 129-134.	2.3	6
27	Reconstitution of intracellular environments <i>in vitro</i> and in artificial cells. Biophysics (Nagoya-shi, Japan), 2014, 10, 43-48.	0.4	15
28	Multiple patterns of polymer gels in microspheres due to the interplay among phase separation, wetting, and gelation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15894-15899.	7.1	39
29	Characteristic Behavior of Crowding Macromolecules Confined in Cell-Sized Droplets. International Review of Cell and Molecular Biology, 2014, 307, 175-204.	3.2	25
30	Generation of Giant Unilamellar Liposomes Containing Biomacromolecules at Physiological Intracellular Concentrations using Hypertonic Conditions. ACS Synthetic Biology, 2014, 3, 870-874.	3.8	39
31	Solâ€“gel transition and phase separation in ternary system of gelatin-waterâ€“poly(ethylene glycol) oligomer. Journal of Molecular Liquids, 2014, 200, 47-51.	4.9	14
32	Phase separation in binary polymer solution: Gelatin/Poly(ethylene glycol) system. Journal of Molecular Liquids, 2014, 200, 2-6.	4.9	28
33	Phase behaviors of agarose gel. AIP Advances, 2013, 3, .	1.3	18
34	Adhesive force between paired microdroplets coated with lipid monolayers. Soft Matter, 2013, 9, 5891.	2.7	34
35	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
36	2P180 Molecular crowding effects on intracellular mechanical environments(12. Cell biology,Poster). Seibutsu Butsuri, 2013, 53, S188.	0.1	0

#	Article	IF	Citations
37	2P218 Generation of artificial cells that mimic living cells(13B. Biological & Artifical membrane:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0
38	Emergence of a thread-like pattern with charged phospholipids on an oil/water interface. Journal of Chemical Physics, 2012, 136, 204903.	3.0	4
39	Cell-Sized confinement in microspheres accelerates the reaction of gene expression. Scientific Reports, 2012, 2, 283.	3.3	79
40	Micro-segregation induced by bulky-head lipids: formation of characteristic patterns in a giant vesicle. Soft Matter, 2012, 8, 488-495.	2.7	16
41	UV-Induced Bursting of Cell-Sized Multicomponent Lipid Vesicles in a Photosensitive Surfactant Solution. Journal of the American Chemical Society, 2012, 134, 4898-4904.	13.7	75
42	Phase separation in crowded micro-spheroids: DNAâ€“PEG system. Chemical Physics Letters, 2012, 539-540, 157-162.	2.6	63
43	Oriented Reconstitution of a Membrane Protein in a Giant Unilamellar Vesicle: Experimental Verification with the Potassium Channel KcsA. Journal of the American Chemical Society, 2011, 133, 11774-11779.	13.7	104
44	Numerical investigations of the dynamics of two-component vesicles. Journal of Physics Condensed Matter, 2011, 23, 284103.	1.8	10
45	Phase Separation on a Phospholipid Membrane Inducing a Characteristic Localization of DNA Accompanied by Its Structural Transition. Journal of Physical Chemistry Letters, 2010, 1, 3391-3395.	4.6	33
46	Periodic modulation of tubular vesicles induced by phase separation. Physical Review E, 2010, 82, 051928.	2.1	29
47	Adhesion of binary giant vesicles containing negative spontaneous curvature lipids induced by phase separation. European Physical Journal E, 2008, 25, 403-13.	1.6	24
48	Shape Deformation of Vesicle Coupled with Phase Separation. Progress of Theoretical Physics Supplement, 2008, 175, 71-80.	0.1	2
49	Shape Deformation of Ternary Vesicles Coupled with Phase Separation. Physical Review Letters, 2008, 100, 148102.	7.8	183
50	Growth Dynamics of Domains in Ternary Fluid Vesicles. Biophysical Journal, 2007, 92, 115-125.	0.5	116