

# Takashi Taniguchi

## List of Publications by Year in descending order

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80  
papers

1,957  
citations

304743

22  
h-index

254184

43  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealed Architectures of Adsorbed Polymer Chains at Solid-Polymer Melt Interfaces. <i>Physical Review Letters</i> , 2012, 109, 265501.	7.8	219
2	Shape Deformation of Ternary Vesicles Coupled with Phase Separation. <i>Physical Review Letters</i> , 2008, 100, 148102.	7.8	183
3	Shape Deformation and Phase Separation Dynamics of Two-Component Vesicles. <i>Physical Review Letters</i> , 1996, 76, 4444-4447.	7.8	168
4	Self-Consistent Field Theory of Polyelectrolyte Systems. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6733-6744.	2.6	121
5	Network Domain Structure in Viscoelastic Phase Separation. <i>Physical Review Letters</i> , 1996, 77, 4910-4913.	7.8	110
6	Melt rheology of long-chain-branched polypropylenes. <i>Rheologica Acta</i> , 2006, 46, 33-44.	2.4	83
7	Phase transitions and shapes of two component membranes and vesicles I: strong segregation limit. <i>Journal De Physique II</i> , 1993, 3, 971-997.	0.9	82
8	Viscoelastic effects in early stage phase separation in polymeric systems. <i>Journal of Chemical Physics</i> , 1997, 106, 5761-5770.	3.0	71
9	Phase transitions and shapes of two component membranes and vesicles II : weak segregation limit. <i>Journal De Physique II</i> , 1994, 4, 1333-1362.	0.9	67
10	Nanostructures and Dynamics of Macromolecules Bound to Attractive Filler Surfaces. <i>ACS Macro Letters</i> , 2015, 4, 838-842.	4.8	51
11	Pore Formation in a Binary Giant Vesicle Induced by Cone-Shaped Lipids. <i>Biophysical Journal</i> , 2010, 99, 472-479.	0.5	49
12	Polymer depletion-induced slip near an interface. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L9-L14.	1.8	44
13	Effect of rheological behavior of epoxy during precuring on foaming. <i>Journal of Applied Polymer Science</i> , 2008, 110, 657-662.	2.6	42
14	Phase Separation in Polymer Solutions Induced by Shear. <i>Journal De Physique II</i> , 1997, 7, 295-304.	0.9	36
15	Relation between tacticity and fiber diameter in melt-electrospinning of polypropylene. <i>Fibers and Polymers</i> , 2009, 10, 275-279.	2.1	34
16	Nanoporous structure of the cell walls of polycarbonate foams. <i>Journal of Materials Science</i> , 2014, 49, 2605-2617.	3.7	30
17	Periodic modulation of tubular vesicles induced by phase separation. <i>Physical Review E</i> , 2010, 82, 051928.	2.1	29
18	Rheological properties of poly(vinyl chloride)/plasticizer systemsâ€”relation between solâ€”gel transition and elongational viscosity. <i>Rheologica Acta</i> , 2007, 46, 957-964.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Rheology and morphology change with temperature of SEBS/hydrocarbon oil blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 955-965.	2.1	27
20	Multiscale Lagrangian fluid dynamics simulation for polymeric fluid. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 886-893.	2.1	27
21	Depletion and the dynamics in colloid-polymer mixtures. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 66-70.	7.4	24
22	Multiscale simulations for entangled polymer melt spinning process. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 241, 34-42.	2.4	24
23	Ultrasonic Investigations of Hydrogels Containing Barium Ferrite Particles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5426-5431.	2.6	21
24	Interphase Structures and Dynamics near Nanofiller Surfaces in Polymer Solutions. <i>Macromolecules</i> , 2018, 51, 9462-9470.	4.8	21
25	Multiscale Simulations of Flows of a Well-Entangled Polymer Melt in a Contraction-Expansion Channel. <i>Macromolecules</i> , 2019, 52, 547-564.	4.8	18
26	Viscosity Landscape of Phase-Separated Lipid Membrane Estimated from Fluid Velocity Field. <i>Biophysical Journal</i> , 2020, 118, 1576-1587.	0.5	18
27	Multiscale Modeling for Polymeric Flow: Particle-Fluid Bridging Scale Methods. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 012001.	1.6	17
28	Direct numerical simulation of a particle attachment to an immersed bubble. <i>Physics of Fluids</i> , 2016, 28, .	4.0	17
29	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. <i>Macromolecules</i> , 2021, 54, 11032-11046.	4.8	17
30	Melt rheology of hyperbranched polystyrene synthesized with multisite macromonomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2226-2237.	2.1	16
31	Flow-History-Dependent Behavior of Entangled Polymer Melt Flow Analyzed by Multiscale Simulation. <i>Journal of the Physical Society of Japan</i> , 2012, 81, SA013.	1.6	15
32	Learning the constitutive relation of polymeric flows with memory. <i>Physical Review Research</i> , 2020, 2, .	3.6	15
33	Tubular Membrane Formation of Binary Giant Unilamellar Vesicles Composed of Cylinder and Inverse-Cone-Shaped Lipids. <i>Biophysical Journal</i> , 2013, 105, 2074-2081.	0.5	14
34	Coarse-Grained Computational Studies of Supported Bilayers: Current Problems and Their Root Causes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10643-10652.	2.6	14
35	Discharge behaviors and jet profiles during electrospinning of poly(vinyl alcohol). <i>Polymer Engineering and Science</i> , 2010, 50, 1788-1796.	3.1	13
36	Acceleration Mechanism of Growth Rates under Shear Flow Due to the Oriented Melt-The Novel Morphology of Spiral Crystal (Spiralite). <i>Macromolecules</i> , 2006, 39, 1515-1524.	4.8	12

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37	Large-Scale Simulations of Directed Self-Assembly with Simplified Model. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 809-816.	0.3	12
38	Directed self-assembly of nanoparticles at the polymer surface by highly compressible supercritical carbon dioxide. Soft Matter, 2011, 7, 9231.	2.7	10
39	Numerical investigations of the dynamics of two-component vesicles. Journal of Physics Condensed Matter, 2011, 23, 284103.	1.8	10
40	Multiscale Simulation of Polymer Melt Spinning by Using the Dumbbell Model. Nihon Reorji Gakkaishi, 2017, 44, 265-280.	1.0	10
41	Rheology and Entanglement Structure of Well-Entangled Polymer Melts: A Slip-Link Simulation Study. Macromolecules, 2019, 52, 3951-3964.	4.8	10
42	Mechanical Properties of Poly (L-lactic acid)/Biodegradable Polyester Blend Films. Seikei-Kakou, 2003, 15, 581-587.	0.0	10
43	Concentration profile of polymers near a spherical surface. AIP Conference Proceedings, 1992, , .	0.4	9
44	Uniaxial Elongational Viscosity of PC/ A Small Amount of PTFE Blend. Nihon Reorji Gakkaishi, 2005, 33, 173-182.	1.0	8
45	Eulerian/Lagrangian formulation for the elasto-capillary deformation of a flexible fibre. Journal of Computational Physics, 2020, 409, 109324.	3.8	8
46	Diffuse interface model to simulate the rise of a fluid droplet across a cloud of particles. Physical Review Fluids, 2018, 3, .	2.5	8
47	Computer simulation study on the shear-induced phase separation in semidilute polymer solutions in 3-dimensional space. Polymer, 2006, 47, 7846-7852.	3.8	7
48	Viscoelastic phase separation model for ternary polymer solutions. Journal of Chemical Physics, 2021, 154, 104903.	3.0	7
49	The simulation of the swelling and deswelling dynamics of gels. Molecular Physics, 2004, 102, 167-172.	1.7	6
50	Direct numerical simulation of an arbitrarily shaped particle at a fluidic interface. Physical Review E, 2017, 95, 063107.	2.1	6
51	Generalized Protein-Repellent Properties of Ultrathin Homopolymer Films. Macromolecules, 2020, 53, 6547-6554.	4.8	5
52	Self-Consistent Field Theory and Density Functional Theory for Self-Organization in Polymeric Systems. Journal of the Physical Society of Japan, 2009, 78, 041009.	1.6	4
53	Freezing of stressed bilayers and vesicles. Soft Matter, 2014, 10, 257-261.	2.7	4
54	Nonlinear Viscoelasticity of Highly Ordered, Two-Dimensional Assemblies of Metal Nanoparticles Confined at the Air/Water Interface. Langmuir, 2018, 34, 13025-13034.	3.5	4

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55	Multiscale Simulation of the Flows of a Bidisperse Entangled Polymer Melt. Nihon Reoroji Gakkaishi, 2021, 49, 87-95.	1.0	4
56	Select Applications of Bayesian Data Analysis and Machine Learning to Flow Problems. Nihon Reoroji Gakkaishi, 2021, 49, 97-113.	1.0	4
57	The effect of 1,3:2,4-bis-O-(p-methylbenzylidene)-d-sorbitol (PDTS) on uniaxial elongational viscosity of polypropylene. Rheologica Acta, 2008, 47, 237-242.	2.4	3
58	Nanoparticle Retardation in Semidilute Polymer Solutions. AIP Conference Proceedings, 2008, , .	0.4	3
59	Computer simulation study on the shear-induced phase separation in semi-dilute polymer solutions by using Ianniruberto-Marrucci model. Polymer, 2010, 51, 1853-1860.	3.8	3
60	Electrostatic Potential around a Charged Colloidal Particle in an Electrolyte Solution with Ion Strong Coupling. Journal of the Physical Society of Japan, 2012, 81, 024803.	1.6	3
61	Stochastic interactions of two Brownian hard spheres in the presence of depletants. Journal of Chemical Physics, 2014, 140, 214906.	3.0	3
62	Reynolds-number-dependent dynamical transitions on hydrodynamic synchronization modes of externally driven colloids. Physical Review E, 2018, 97, 032611.	2.1	3
63	Relation between Spinning Conditions and Jet Profile in Electrospinning. Seikei-Kakou, 2009, 21, 627-632.	0.0	3
64	Shape Deformation of Vesicle Coupled with Phase Separation. Progress of Theoretical Physics Supplement, 2008, 175, 71-80.	0.1	2
65	Multiscale DSA simulations for efficient hotspot analysis. , 2014, , .		2
66	Improvement of Mechanical Properties for Poly (L-lactic acid) Film through Drawing Process Optimization. Journal of Fiber Science and Technology, 2004, 60, 230-234.	0.0	2
67	Flow induced by an oscillating sphere in probing complex viscosity of polymer solutions. Physical Review Fluids, 2020, 5, .	2.5	2
68	Computer Simulation Study on the Shear-Induced Phase Separation in Semi-Dilute Polymer Solutions by Using Ianniruberto-Marrucci Model. Kobunshi Ronbunshu, 2007, 64, 324-327.	0.2	1
69	Effect of Viscosity of an Epoxy near or over Its Gel Point on Foaming Structures. AIP Conference Proceedings, 2008, , .	0.4	1
70	Elongational behavior of epoxy during curing. Journal of Applied Polymer Science, 2009, 114, 1018-1024.	2.6	1
71	Two-dimensional lattice liquid models. Physical Review E, 2012, 86, 031124.	2.1	1
72	Theoretical and Numerical Studies on Viscoelastic Effect in Phase Separation of Polymeric Systems. Nihon Reoroji Gakkaishi, 2004, 32, 27-32.	1.0	1

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73	Electric Field Induced Surface Profile Change of Liquid Film on a Periodically Aligned Electrode Array. Nihon Reorogi Gakkaishi, 2010, 38, 81-86.	1.0	1
74	Storage Modulus of Poly(vinyl alcohol) Gels Loaded with Polyelectrolyte Particles. E-Polymers, 2007, 7, .	3.0	0
75	2S8-4 Shape deformation of ternary vesicles coupled with phase separation(2S8 Giant Liposome) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2008, 48, S13.	0.1	0
76	2P205 Main phase transition of asymmetric lipid bilayers(13A. Biological & Artificial membrane:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
77	Studies on Dynamics of Flexible Fibers in a Binary Fluid. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2021, 28, 55-63.	0.0	0
78	Machine Learning for the Flow Prediction of Fluids with Memory Effects on the Stress. Japanese Journal of Multiphase Flow, 2021, 35, 426-436.	0.3	0
79	The Photopolymer Science and Technology Award. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 7-11.	0.3	0
80	Multiscale Simulation of Polymeric Liquid Flows. Seikei-Kakou, 2017, 29, 52-56.	0.0	0