

Takashi Taniguchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,645
citations

20
h-index

39
g-index

80
ext. papers

1,792
ext. citations

3.1
avg, IF

4.74
L-index

#	Paper	IF	Citations
78	Machine Learning for the Flow Prediction of Fluids with Memory Effects on the Stress. <i>Japanese Journal of Multiphase Flow</i> , 2021 , 35, 426-436	0.3	
77	Viscoelastic phase separation model for ternary polymer solutions. <i>Journal of Chemical Physics</i> , 2021 , 154, 104903	3.9	3
76	Multiscale Simulation of the Flows of a Bidisperse Entangled Polymer Melt. <i>Nihon Reoroji Gakkaishi</i> , 2021 , 49, 87-95	0.8	2
75	Select Applications of Bayesian Data Analysis and Machine Learning to Flow Problems. <i>Nihon Reoroji Gakkaishi</i> , 2021 , 49, 97-113	0.8	2
74	Studies on Dynamics of Flexible Fibers in a Binary Fluid. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2021 , 28, 55-63	0	
73	Eulerian/Lagrangian formulation for the elasto-capillary deformation of a flexible fibre. <i>Journal of Computational Physics</i> , 2020 , 409, 109324	4.1	5
72	Viscosity Landscape of Phase-Separated Lipid Membrane Estimated from Fluid Velocity Field. <i>Biophysical Journal</i> , 2020 , 118, 1576-1587	2.9	6
71	Learning the constitutive relation of polymeric flows with memory. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
70	Generalized Protein-Repellent Properties of Ultrathin Homopolymer Films. <i>Macromolecules</i> , 2020 , 53, 6547-6554	5.5	4
69	Rheology and Entanglement Structure of Well-Entangled Polymer Melts: A Slip-Link Simulation Study. <i>Macromolecules</i> , 2019 , 52, 3951-3964	5.5	3
68	Multiscale Simulations of Flows of a Well-Entangled Polymer Melt in a ContractionExpansion Channel. <i>Macromolecules</i> , 2019 , 52, 547-564	5.5	13
67	Reynolds-number-dependent dynamical transitions on hydrodynamic synchronization modes of externally driven colloids. <i>Physical Review E</i> , 2018 , 97, 032611	2.4	3
66	Diffuse interface model to simulate the rise of a fluid droplet across a cloud of particles. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	5
65	Interphase Structures and Dynamics near Nanofiller Surfaces in Polymer Solutions. <i>Macromolecules</i> , 2018 , 51, 9462-9470	5.5	10
64	Nonlinear Viscoelasticity of Highly Ordered, Two-Dimensional Assemblies of Metal Nanoparticles Confined at the Air/Water Interface. <i>Langmuir</i> , 2018 , 34, 13025-13034	4	4
63	Multiscale simulations for entangled polymer melt spinning process. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 241, 34-42	2.7	16
62	Multiscale Simulation of Polymer Melt Spinning by Using the Dumbbell Model. <i>Nihon Reoroji Gakkaishi</i> , 2017 , 44, 265-280	0.8	7

61	Direct numerical simulation of an arbitrarily shaped particle at a fluidic interface. <i>Physical Review E</i> , 2017 , 95, 063107	2.4	5
60	The Photopolymer Science and Technology Award. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017 , 30, 7-11	0.7	
59	Multiscale Simulation of Polymeric Liquid Flows. <i>Seikei-Kakou</i> , 2017 , 29, 52-56	0	
58	Direct numerical simulation of a particle attachment to an immersed bubble. <i>Physics of Fluids</i> , 2016 , 28, 083301	4.4	11
57	Nanostructures and Dynamics of Macromolecules Bound to Attractive Filler Surfaces. <i>ACS Macro Letters</i> , 2015 , 4, 838-842	6.6	42
56	Depletion and the dynamics in colloid-polymer mixtures. <i>Current Opinion in Colloid and Interface Science</i> , 2015 , 20, 66-70	7.6	20
55	Freezing of stressed bilayers and vesicles. <i>Soft Matter</i> , 2014 , 10, 257-61	3.6	4
54	Coarse-grained computational studies of supported bilayers: current problems and their root causes. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10643-52	3.4	13
53	Multiscale DSA simulations for efficient hotspot analysis 2014 ,		2
52	Stochastic interactions of two Brownian hard spheres in the presence of depletants. <i>Journal of Chemical Physics</i> , 2014 , 140, 214906	3.9	1
51	Nanoporous structure of the cell walls of polycarbonate foams. <i>Journal of Materials Science</i> , 2014 , 49, 2605-2617	4.3	20
50	Tubular membrane formation of binary giant unilamellar vesicles composed of cylinder and inverse-cone-shaped lipids. <i>Biophysical Journal</i> , 2013 , 105, 2074-81	2.9	12
49	Multiscale Modeling for Polymeric Flow: Particle-Fluid Bridging Scale Methods. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 012001	1.5	15
48	2P205 Main phase transition of asymmetric lipid bilayers(13A. Biological & Artificial membrane: Structure & Property,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S193	0	
47	Large-Scale Simulations of Directed Self-Assembly with Simplified Model. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013 , 26, 809-816	0.7	10
46	Two-dimensional lattice liquid models. <i>Physical Review E</i> , 2012 , 86, 031124	2.4	0
45	Revealed architectures of adsorbed polymer chains at solid-polymer melt interfaces. <i>Physical Review Letters</i> , 2012 , 109, 265501	7.4	183
44	Electrostatic Potential around a Charged Colloidal Particle in an Electrolyte Solution with Ion Strong Coupling. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 024803	1.5	3

43	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	1.5	11
42	Directed self-assembly of nanoparticles at the polymer surface by highly compressible supercritical carbon dioxide. <i>Soft Matter</i> , 2011 , 7, 9231	3.6	8
41	Numerical investigations of the dynamics of two-component vesicles. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 284103	1.8	9
40	Pore formation in a binary giant vesicle induced by cone-shaped lipids. <i>Biophysical Journal</i> , 2010 , 99, 4722-4729	2.9	45
39	Periodic modulation of tubular vesicles induced by phase separation. <i>Physical Review E</i> , 2010 , 82, 051928	2.4	21
38	Computer simulation study on the shear-induced phase separation in semi-dilute polymer solutions by using Ianniruberto-Marrucci model. <i>Polymer</i> , 2010 , 51, 1853-1860	3.9	3
37	Multiscale Lagrangian fluid dynamics simulation for polymeric fluid. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 886-893	2.6	21
36	Discharge behaviors and jet profiles during electrospinning of poly(vinyl alcohol). <i>Polymer Engineering and Science</i> , 2010 , 50, 1788-1796	2.3	9
35	Electric Field Induced Surface Profile Change of Liquid Film on a Periodically Aligned Electrode Array. <i>Nihon Reoroji Gakkaishi</i> , 2010 , 38, 81-86	0.8	1
34	Elongational behavior of epoxy during curing. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1018-1024	2.9	1
33	Relation between tacticity and fiber diameter in melt-electrospinning of polypropylene. <i>Fibers and Polymers</i> , 2009 , 10, 275-279	2	32
32	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	2.6	26
31	Melt rheology of hyperbranched-polystyrene synthesized with multisite macromonomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 2226-2237	2.6	15
30	Self-Consistent Field Theory and Density Functional Theory for Self-Organization in Polymeric Systems. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 041009	1.5	4
29	Relation between Spinning Conditions and Jet Profile in Electrospinning. <i>Seikei-Kakou</i> , 2009 , 21, 627-632	2	2
28	Shape Deformation of Vesicle Coupled with Phase Separation. <i>Progress of Theoretical Physics Supplement</i> , 2008 , 175, 71-80		2
27	Shape deformation of ternary vesicles coupled with phase separation. <i>Physical Review Letters</i> , 2008 , 100, 148102	7.4	157
26	Nanoparticle Retardation in Semidilute Polymer Solutions. <i>AIP Conference Proceedings</i> , 2008 ,	0	3

25	2S8-4 Shape deformation of ternary vesicles coupled with phase separation(2S8 Giant Liposome Research Front Line,The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsurei</i> , 2008 , 48, S13	0	
24	Effect of Viscosity of an Epoxy near or over Its Gel Point on Foaming Structures. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
23	The effect of 1,3:2,4-bis-O-(p-methylbenzylidene)-d-sorbitol (PDS) on uniaxial elongational viscosity of polypropylene. <i>Rheologica Acta</i> , 2008 , 47, 237-242	2.3	3
22	Effect of rheological behavior of epoxy during precuring on foaming. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 657-662	2.9	35
21	Rheological properties of poly(vinyl chloride)/plasticizer systemsRelation between sol-gel transition and elongational viscosity. <i>Rheologica Acta</i> , 2007 , 46, 957-964	2.3	26
20	Computer Simulation Study on the Shear-Induced Phase Separation in Semi-Dilute Polymer Solutions by Using Ianniruberto-Marrucci Model. <i>Kobunshi Ronbunshu</i> , 2007 , 64, 324-327	0	1
19	Acceleration Mechanism of Growth Rates under Shear Flow Due to the Oriented MeltThe Novel Morphology of Spiral Crystal (Spiralite)Macromolecules, 2006 , 39, 1515-1524	5.5	11
18	Computer simulation study on the shear-induced phase separation in semidilute polymer solutions in 3-dimensional space. <i>Polymer</i> , 2006 , 47, 7846-7852	3.9	6
17	Melt rheology of long-chain-branched polypropylenes. <i>Rheologica Acta</i> , 2006 , 46, 33-44	2.3	72
16	Uniaxial Elongational Viscosity of PC/ A Small Amount of PTFE Blend. <i>Nihon Reoroji Gakkaishi</i> , 2005 , 33, 173-182	0.8	8
15	Polymer depletion-induced slip near an interface. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L9-L14	1.8	37
14	The simulation of the swelling and deswelling dynamics of gels. <i>Molecular Physics</i> , 2004 , 102, 167-172	1.7	6
13	Self-Consistent Field Theory of Polyelectrolyte SystemsJournal of Physical Chemistry B, 2004 , 108, 6733-6744	3.7	115
12	Theoretical and Numerical Studies on Viscoelastic Effect in Phase Separation of Polymeric Systems. <i>Nihon Reoroji Gakkaishi</i> , 2004 , 32, 27-32	0.8	1
11	Improvement of Mechanical Properties for Poly (L-lactic acid) Film through Drawing Process Optimization. <i>Journal of Fiber Science and Technology</i> , 2004 , 60, 230-234	0	2
10	Ultrasonic Investigations of Hydrogels Containing Barium Ferrite Particles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5426-5431	3.4	18
9	Mechanical Properties of Poly (L-lactic acid)/Biodegradable Polyester Blend Films. <i>Seikei-Kakou</i> , 2003 , 15, 581-587	0	10
8	Viscoelastic effects in early stage phase separation in polymeric systems. <i>Journal of Chemical Physics</i> , 1997 , 106, 5761-5770	3.9	65

7	Phase Separation in Polymer Solutions Induced by Shear. <i>Journal De Physique II</i> , 1997 , 7, 295-304		33
6	Network Domain Structure in Viscoelastic Phase Separation. <i>Physical Review Letters</i> , 1996 , 77, 4910-4913	7.4	95
5	Shape deformation and phase separation dynamics of two-component vesicles. <i>Physical Review Letters</i> , 1996 , 76, 4444-4447	7.4	149
4	Phase transitions and shapes of two component membranes and vesicles II : weak segregation limit. <i>Journal De Physique II</i> , 1994 , 4, 1333-1362		60
3	Phase transitions and shapes of two component membranes and vesicles I: strong segregation limit. <i>Journal De Physique II</i> , 1993 , 3, 971-997		79
2	Concentration profile of polymers near a spherical surface. <i>AIP Conference Proceedings</i> , 1992 ,	0	7
1	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. <i>Macromolecules</i> ,	5.5	3