

# Hajime Tanaka

## List of Publications by Year in descending order

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310  
papers

18,100  
citations

9264

74  
h-index

17592

121  
g-index

312  
all docs

312  
docs citations

312  
times ranked

9651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of liquid structural ordering in glass transition, crystallization, and water's anomalies. Journal of Non-Crystalline Solids: X, 2022, 13, 100076.	1.2	5
2	Microscopic structural origin behind slowing down of colloidal phase separation approaching gelation. Journal of Chemical Physics, 2022, 156, 084904.	3.0	6
3	Impact of Charge Regulation on Self-Assembly of Zwitterionic Nanoparticles. Physical Review Letters, 2022, 128, 158001.	7.8	5
4	Origin of the boson peak in amorphous solids. Nature Physics, 2022, 18, 669-677.	16.7	46
5	Viscoelastic phase separation in biological cells. Communications Physics, 2022, 5, .	5.3	23
6	Morphology selection kinetics of crystallization in a sphere. Nature Physics, 2021, 17, 121-127.	16.7	27
7	Power-law coarsening in network-forming phase separation governed by mechanical relaxation. Nature Communications, 2021, 12, 912.	12.8	33
8	On the structural heterogeneity of supercooled liquids and glasses <sup>(a)</sup> . Europhysics Letters, 2021, 133, 56002.	2.0	10
9	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
10	Revealing thermally-activated nucleation pathways of diffusionless solid-to-solid transition. Nature Communications, 2021, 12, 4042.	12.8	13
11	Particle-Level Visualization of Hydrodynamic and Frictional Couplings in Dense Suspensions of Spherical Colloids. Physical Review X, 2021, 11, .	8.9	6
12	The potential of chemical bonding to design crystallization and vitrification kinetics. Nature Communications, 2021, 12, 4978.	12.8	35
13	Hidden linear defects in surfactant onions revealed by coalescence into lamellar layers. Physical Review Research, 2021, 3, .	3.6	1
14	Towards Glasses with Permanent Stability. Physical Review Letters, 2021, 127, 215501.	7.8	11
15	The anomalies and criticality of liquid water. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26591-26599.	7.1	57
16	Liquid-liquid transition and polyamorphism. Journal of Chemical Physics, 2020, 153, 130901.	3.0	87
17	A unique route of colloidal phase separation yields stress-free gels. Science Advances, 2020, 6, .	10.3	22
18	Emergent solidity of amorphous materials as a consequence of mechanical self-organisation. Nature Communications, 2020, 11, 4863.	12.8	26

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19	Physical origin of glass formation from multicomponent systems. <i>Science Advances</i> , 2020, 6, .	10.3	37
20	Role of Attractive Interactions in Structure Ordering and Dynamics of Glass-Forming Liquids. <i>Physical Review Letters</i> , 2020, 124, 225501.	7.8	30
21	Role of many-body correlation in slow dynamics of glass-forming liquids: intrinsic or perturbative. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 034003.	2.3	7
22	Revealing roles of competing local structural orderings in crystallization of polymorphic systems. <i>Science Advances</i> , 2020, 6, eaaw8938.	10.3	15
23	Direct Evidence in the Scattering Function for the Coexistence of Two Types of Local Structures in Liquid Water. <i>Journal of the American Chemical Society</i> , 2020, 142, 2868-2875.	13.7	50
24	A novel physical mechanism of liquid flow slippage on a solid surface. <i>Science Advances</i> , 2020, 6, eaaz0504.	10.3	23
25	Role of hydrodynamics in liquid-liquid transition of a single-component substance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4471-4479.	7.1	15
26	Homogeneous nucleation of ferroelectric ice crystal driven by spontaneous dipolar ordering in supercooled TIP5P water. <i>Journal of Chemical Physics</i> , 2019, 151, 024501.	3.0	5
27	Crystalline clusters in mW water: Stability, growth, and grain boundaries. <i>Journal of Chemical Physics</i> , 2019, 151, 044505.	3.0	17
28	Complex dynamical interplay between solid particles and flow in driven granular suspensions. <i>Physical Review E</i> , 2019, 100, 012907.	2.1	2
29	Revealing Inherent Structural Characteristics of Jammed Particulate Packings. <i>Physical Review Letters</i> , 2019, 122, 215502.	7.8	19
30	Direct link between mechanical stability in gels and percolation of isostatic particles. <i>Science Advances</i> , 2019, 5, eaav6090.	10.3	72
31	Revealing key structural features hidden in liquids and glasses. <i>Nature Reviews Physics</i> , 2019, 1, 333-348.	26.6	134
32	Distinct signature of local tetrahedral ordering in the scattering function of covalent liquids and glasses. <i>Science Advances</i> , 2019, 5, eaav3194.	10.3	40
33	Numerical prediction of colloidal phase separation by direct computation of Navier-Stokes equation. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	21
34	Link between molecular mobility and order parameter during liquid-liquid transition of a molecular liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7176-7185.	7.1	10
35	Influence of Hydrodynamic Interactions on Colloidal Crystallization. <i>Physical Review Letters</i> , 2019, 123, 258002.	7.8	12
36	Drastic enhancement of crystal nucleation in a molecular liquid by its liquid-liquid transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24949-24955.	7.1	10

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37	Structural order as a genuine control parameter of dynamics in simple glass formers. <i>Nature Communications</i> , 2019, 10, 5596.	12.8	56
38	Numerical Simulation of Colloidal Suspension. <i>Oleoscience</i> , 2019, 19, 455-460.	0.0	1
39	Externally driven local colloidal ordering induced by a pointlike heat source. <i>Physical Review Research</i> , 2019, 1, .	3.6	2
40	Microscopic structural descriptor of liquid water. <i>Journal of Chemical Physics</i> , 2018, 148, 124503.	3.0	39
41	Physical foundation of the fluid particle dynamics method for colloid dynamics simulation. <i>Soft Matter</i> , 2018, 14, 3738-3747.	2.7	19
42	Vitrification and gelation in sticky spheres. <i>Journal of Chemical Physics</i> , 2018, 148, 044501.	3.0	45
43	Impact of local symmetry breaking on the physical properties of tetrahedral liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1980-1985.	7.1	33
44	Water-like anomalies as a function of tetrahedrality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3333-E3341.	7.1	55
45	Revealing Hidden Structural Order Controlling Both Fast and Slow Glassy Dynamics in Supercooled Liquids. <i>Physical Review X</i> , 2018, 8, .	8.9	75
46	Structural predictor for nonlinear sheared dynamics in simple glass-forming liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 87-92.	7.1	27
47	Volume-shrinking kinetics of transient gels as a consequence of dynamic interplay between phase separation and mechanical relaxation. <i>Physical Review E</i> , 2018, 98, .	2.1	7
48	Common microscopic structural origin for water's thermodynamic and dynamic anomalies. <i>Journal of Chemical Physics</i> , 2018, 149, 224502.	3.0	68
49	Self-organization into ferroelectric and antiferroelectric crystals via the interplay between particle shape and dipolar interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9917-9922.	7.1	14
50	Origin of the emergent fragile-to-strong transition in supercooled water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9444-9449.	7.1	107
51	Glass Forming Ability in Systems with Competing Orderings. <i>Physical Review X</i> , 2018, 8, .	8.9	35
52	Hydrodynamic simulations of charge-regulation effects in colloidal suspensions. <i>Soft Matter</i> , 2018, 14, 4711-4720.	2.7	8
53	Surface-assisted single-crystal formation of charged colloids. <i>Nature Physics</i> , 2017, 13, 503-509.	16.7	53
54	Impact of surface roughness on liquid-liquid transition. <i>Science Advances</i> , 2017, 3, e1602209.	10.3	7

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55	Impact of spatial dimension on structural ordering in metallic glass. <i>Physical Review E</i> , 2017, 96, 022613.	2.1	9
56	Response of Soft Continuous Structures and Topological Defects to a Temperature Gradient. <i>Physical Review Letters</i> , 2017, 119, 108003.	7.8	4
57	Formation of porous crystals via viscoelastic phase separation. <i>Nature Materials</i> , 2017, 16, 1022-1028.	27.5	36
58	Common mechanism of thermodynamic and mechanical origin for ageing and crystallization of glasses. <i>Nature Communications</i> , 2017, 8, 15954.	12.8	40
59	Impact of complex topology of porous media on phase separation of binary mixtures. <i>Science Advances</i> , 2017, 3, eaap9570.	10.3	24
60	Water: A Tale of Two Liquids. <i>Chemical Reviews</i> , 2016, 116, 7463-7500.	47.7	627
61	The reversibility and first-order nature of liquid-liquid transition in a molecular liquid. <i>Nature Communications</i> , 2016, 7, 13438.	12.8	53
62	Crystal nucleation as the ordering of multiple order parameters. <i>Journal of Chemical Physics</i> , 2016, 145, 211801.	3.0	91
63	Nonclassical pathways of crystallization in colloidal systems. <i>MRS Bulletin</i> , 2016, 41, 369-374.	3.5	39
64	Anomalous phonon scattering and elastic correlations in amorphous solids. <i>Nature Materials</i> , 2016, 15, 1177-1181.	27.5	91
65	Significant difference in the dynamics between strong and fragile glass formers. <i>Physical Review E</i> , 2016, 94, 052607.	2.1	10
66	A possible four-phase coexistence in a single-component system. <i>Nature Communications</i> , 2016, 7, 12599.	12.8	16
67	Effect of Energy Polydispersity on the Nature of Lennard-Jones Liquids. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7704-7713.	2.6	17
68	Probing Colloidal Gels at Multiple Length Scales: The Role of Hydrodynamics. <i>Physical Review Letters</i> , 2015, 114, 258302.	7.8	42
69	Roles of Energy Dissipation in a Liquid-Solid Transition of Out-of-Equilibrium Systems. <i>Physical Review X</i> , 2015, 5, .	8.9	22
70	Assessing the role of static length scales behind glassy dynamics in polydisperse hard disks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6920-6924.	7.1	48
71	Purely hydrodynamic ordering of rotating disks at a finite Reynolds number. <i>Nature Communications</i> , 2015, 6, 5994.	12.8	64
72	A novel coarsening mechanism of droplets in immiscible fluid mixtures. <i>Nature Communications</i> , 2015, 6, 7407.	12.8	63

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73	Effect of Size Polydispersity on the Nature of Lennard-Jones Liquids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11052-11062.	2.6	26
74	Microscopic identification of the order parameter governing liquid-liquid transition in a molecular liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5956-5961.	7.1	29
75	Time-Resolved Light Scattering Study on the Kinetics of the Liquid-Liquid Transition in Triphenyl Phosphite. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11768-11782.	2.6	14
76	Novel stable crystalline phase for the Stillinger-Weber potential. <i>Physical Review B</i> , 2014, 90, .	3.2	24
77	Influence of Patch-Size Variability on the Crystallization of Tetrahedral Patchy Particles. <i>Physical Review Letters</i> , 2014, 113, 138303.	7.8	19
78	Evidence of Liquid-Liquid Transition in Triphenyl Phosphite from Time-Resolved Light Scattering Experiments. <i>Physical Review Letters</i> , 2014, 112, 125702.	7.8	29
79	Understanding water's anomalies with locally favoured structures. <i>Nature Communications</i> , 2014, 5, 3556.	12.8	248
80	Influence of internal viscoelastic modes on the Brownian motion of a $\lambda$ -DNA coated colloid. <i>Soft Matter</i> , 2014, 10, 1738.	2.7	1
81	Structural evolution in the aging process of supercooled colloidal liquids. <i>Physical Review E</i> , 2014, 89, 062315.	2.1	32
82	New metastable form of ice and its role in the homogeneous crystallization of water. <i>Nature Materials</i> , 2014, 13, 733-739.	27.5	168
83	Nonequilibrium Critical Casimir Effect in Binary Fluids. <i>Physical Review Letters</i> , 2013, 111, 055701.	7.8	52
84	Role of bond orientational order in the crystallization of hard spheres. , 2013, , .		4
85	The interplay of sedimentation and crystallization in hard-sphere suspensions. <i>Soft Matter</i> , 2013, 9, 7369.	2.7	31
86	A novel particle tracking method with individual particle size measurement and its application to ordering in glassy hard sphere colloids. <i>Soft Matter</i> , 2013, 9, 1447-1457.	2.7	30
87	Importance of many-body orientational correlations in the physical description of liquids. <i>Faraday Discussions</i> , 2013, 167, 9.	3.2	77
88	General nature of liquid-liquid transition in aqueous organic solutions. <i>Nature Communications</i> , 2013, 4, 2844.	12.8	52
89	Spontaneous bond orientational ordering in liquids: An intimate link between glass transition and crystallization. , 2013, , .		2
90	Lifetimes and lengthscales of structural motifs in a model glassformer. <i>Faraday Discussions</i> , 2013, 167, 405.	3.2	57

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91	Importance of many-body correlations in glass transition: An example from polydisperse hard spheres. <i>Journal of Chemical Physics</i> , 2013, 138, 12A536.	3.0	48
92	Structure and kinetics in the freezing of nearly hard spheres. <i>Soft Matter</i> , 2013, 9, 297-305.	2.7	57
93	Identification of long-lived clusters and their link to slow dynamics in a model glass former. <i>Journal of Chemical Physics</i> , 2013, 138, 12A535.	3.0	106
94	A novel coarsening mechanism of droplet spinodal decomposition. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	1
95	Defect science and engineering of liquid crystals under geometrical frustration. <i>Soft Matter</i> , 2013, 9, 8107.	2.7	41
96	Liquid-glass transition of water/salt mixtures. , 2013, , .		0
97	Novel kinetic trapping in charged colloidal clusters due to self-induced surface charge organization. <i>Scientific Reports</i> , 2013, 3, 2072.	3.3	31
98	Experimental indication for liquid-liquid transition in aqueous solutions. , 2013, , .		0
99	Dynamic scaling for anomalous transport in supercooled liquids. <i>Physical Review E</i> , 2012, 86, 030501.	2.1	18
100	The microscopic pathway to crystallization in supercooled liquids. <i>Scientific Reports</i> , 2012, 2, 505.	3.3	199
101	Time-resolved simultaneous polarized and depolarized light scattering system with high sensitivity to optical anisotropy: Application to phase separation of an optically isotropic liquid mixture. <i>Journal of Chemical Physics</i> , 2012, 136, 064509.	3.0	2
102	Roles of icosahedral and crystal-like order in the hard spheres glass transition. <i>Nature Communications</i> , 2012, 3, 974.	12.8	241
103	Bond orientational order in liquids: Towards a unified description of water-like anomalies, liquid-liquid transition, glass transition, and crystallization. <i>European Physical Journal E</i> , 2012, 35, 113.	1.6	274
104	Viscoelastic phase separation in soft matter and foods. <i>Faraday Discussions</i> , 2012, 158, 371.	3.2	56
105	Selection mechanism of polymorphs in the crystal nucleation of the Gaussian core model. <i>Soft Matter</i> , 2012, 8, 4206.	2.7	79
106	Liquid-liquid transition without macroscopic phase separation in a water-glycerol mixture. <i>Nature Materials</i> , 2012, 11, 436-443.	27.5	169
107	Relationship between the Phase Diagram, the Glass-Forming Ability, and the Fragility of a Water/Salt Mixture. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14077-14090.	2.6	34
108	The effect of inter-cluster interactions on the structure of colloidal clusters. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 760-766.	3.1	21

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109	Memory and topological frustration in nematic liquid crystals confined in porous materials. <i>Nature Materials</i> , 2011, 10, 303-309.	27.5	118
110	Structural origin of enhanced slow dynamics near a wall in glass-forming systems. <i>Nature Materials</i> , 2011, 10, 512-520.	27.5	120
111	Roles of bond orientational ordering in glass transition and crystallization. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 284115.	1.8	19
112	Structural signature of slow dynamics and dynamic heterogeneity in two-dimensional colloidal liquids: glassy structural order. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 194121.	1.8	66
113	Direct evidence of heterogeneous mechanical relaxation in supercooled liquids. <i>Physical Review E</i> , 2011, 84, 061503.	2.1	35
114	Possible Link of the $\langle V \rangle$ -Shaped Phase Diagram to the Glass-Forming Ability and Fragility in a Water-Salt Mixture. <i>Physical Review Letters</i> , 2011, 106, 125703.	7.8	43
115	Formation of a crystal nucleus from liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14036-14041.	7.1	324
116	Critical-like behaviour of glass-forming liquids. <i>Nature Materials</i> , 2010, 9, 324-331.	27.5	418
117	Multiple-scattering-free light scattering spectroscopy with mode selectivity. <i>Physical Review E</i> , 2010, 81, 021401.	2.1	7
118	Key Role of Hydrodynamic Interactions in Colloidal Gelation. <i>Physical Review Letters</i> , 2010, 104, 245702.	7.8	99
119	Structural and Dynamical Features of Multiple Metastable Glassy States in a Colloidal System with Competing Interactions. <i>Physical Review Letters</i> , 2010, 104, 165702.	7.8	90
120	Novel zone formation due to interplay between sedimentation and phase ordering. <i>Europhysics Letters</i> , 2010, 89, 38006.	2.0	19
121	Superdiffusive mass transport as a causal mechanism for large-scale structure formation. <i>Europhysics Letters</i> , 2010, 91, 40008.	2.0	3
122	Surface-wetting effects on the liquid-liquid transition of a single-component molecular liquid. <i>Nature Communications</i> , 2010, 1, 16.	12.8	50
123	Bond orientational ordering in a metastable supercooled liquid: a shadow of crystallization and liquid-liquid transition. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P12001.	2.3	34
124	Structural origin of dynamic heterogeneity in three-dimensional colloidal glass formers and its link to crystal nucleation. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 232102.	1.8	84
125	Multi-particle collision dynamics simulations of sedimenting colloidal dispersions in confinement. <i>Faraday Discussions</i> , 2010, 144, 245-252.	3.2	24
126	Nonlocal Nature of the Viscous Transport in Supercooled Liquids: Complex Fluid Approach to Supercooled Liquids. <i>Physical Review Letters</i> , 2009, 103, 135703.	7.8	49

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127	Hydrodynamic Selection of the Kinetic Pathway of a Polymer Coil-Globule Transition. <i>Physical Review Letters</i> , 2009, 102, 108303.	7.8	34
128	Anisotropic Cooperative Structural Rearrangements in Sheared Supercooled Liquids. <i>Physical Review Letters</i> , 2009, 102, 016001.	7.8	76
129	Apparent Violation of the Fluctuation-Dissipation Theorem due to Dynamic Heterogeneity in a Model Glass-Forming Liquid. <i>Physical Review Letters</i> , 2009, 102, 185701.	7.8	16
130	Fracture Phase Separation. <i>Physical Review Letters</i> , 2009, 102, 065701.	7.8	28
131	Geometric frustration in small colloidal clusters. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 425103.	1.8	36
132	Formation of Network and Cellular Structures by Viscoelastic Phase Separation. <i>Advanced Materials</i> , 2009, 21, 1872-1880.	21.0	69
133	Inhomogeneous flow and fracture of glassy materials. <i>Nature Materials</i> , 2009, 8, 601-609.	27.5	86
134	Direct observation of hydrodynamic instabilities in a driven non-uniform colloidal dispersion. <i>Soft Matter</i> , 2009, 5, 1340.	2.7	64
135	Direct observation of a local structural mechanism for dynamic arrest. <i>Nature Materials</i> , 2008, 7, 556-561.	27.5	300
136	Control of fluidity and miscibility of a binary liquid mixture by the liquid-liquid transition. <i>Nature Materials</i> , 2008, 7, 647-652.	27.5	35
137	Universal link between the boson peak and transverse phonons in glass. <i>Nature Materials</i> , 2008, 7, 870-877.	27.5	471
138	Direct Observation of Medium-Range Crystalline Order in Granular Liquids Near the Glass Transition. <i>Physical Review Letters</i> , 2008, 100, 158002.	7.8	99
139	Controlling competition between crystallization and glass formation in binary colloids with an external field. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 404225.	1.8	28
140	Dynamic depletion attraction between colloids suspended in a phase-separating binary liquid mixture. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 072101.	1.8	10
141	Physical principle for optimizing electrophoretic separation of charged particles. <i>Europhysics Letters</i> , 2008, 82, 18004.	2.0	31
142	Local structure and dynamics in colloidal fluids and gels. <i>Europhysics Letters</i> , 2008, 84, 46002.	2.0	40
143	Pattern evolution of an edge-dislocation array in a lyotropic lamellar phase confined in a wedge-shaped cell: Defect formation, relaxation, and recombination. <i>Physical Review E</i> , 2008, 77, 041706.	2.1	7
144	Phase separation in nematic microemulsions probed by one-dimensional spectroscopic deuteron magnetic resonance microimaging. <i>Physical Review E</i> , 2008, 78, 031707.	2.1	8

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145	Multiple nonergodic disordered states in Laponite suspensions: A phase diagram. <i>Physical Review E</i> , 2008, 78, 061405.	2.1	92
146	Kawasaki, Araki, and Tanaka Reply. <i>Physical Review Letters</i> , 2008, 100, .	7.8	4
147	Violation of the Incompressibility of Liquid by Simple Shear Flow. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
148	Relationship between the Slow Dynamics and the Structure of Supercooled Liquid. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
149	Dynamic Nature of the Liquid-Liquid Transition of Triphenyl Phosphite Studied by Simultaneous Measurements of Dielectric and Morphological Evolution. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
150	Kinetics and Control of Liquid-Liquid Transition. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
151	Spontaneous coarsening of a colloidal network driven by self-generated mechanical stress. <i>Europhysics Letters</i> , 2007, 79, 58003.	2.0	39
152	Generic kinetic pathway of phase separation of deeply quenched polymer solutions: Transient gelation. <i>Europhysics Letters</i> , 2007, 80, 68002.	2.0	18
153	Nucleation of lamellar domains from a sponge phase under shear flow: Shape selection of nuclei in a nonequilibrium steady state. <i>Physical Review E</i> , 2007, 76, 011513.	2.1	4
154	Spontaneous Onion-Structure Formation from Planar Lamellar Nuclei. <i>Physical Review Letters</i> , 2007, 98, 145703.	7.8	17
155	Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 152101.	1.8	19
156	The Ultrafast Dynamics of Hydrogen-Bonded Liquids: Molecular Structure-Dependent Occurrence of Normal Arrhenius or Fractional Stokes-Einstein-Debye Rotational Diffusive Relaxation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9634-9643.	2.6	22
157	Phase-ordering kinetics of the liquid-liquid transition in single-component molecular liquids. <i>Journal of Chemical Physics</i> , 2007, 126, 204505.	3.0	25
158	Possible origin of enhanced crystal growth in a glass. <i>Physical Review B</i> , 2007, 76, .	3.2	55
159	Control of the Liquid-Liquid Transition in a Molecular Liquid by Spatial Confinement. <i>Physical Review Letters</i> , 2007, 98, 235701.	7.8	15
160	Correlation between Dynamic Heterogeneity and Medium-Range Order in Two-Dimensional Glass-Forming Liquids. <i>Physical Review Letters</i> , 2007, 99, 215701.	7.8	249
161	Bridging length scales in colloidal liquids and interfaces from near-critical divergence to single particles. <i>Nature Physics</i> , 2007, 3, 636-640.	16.7	51
162	Measuring colloidal interactions with confocal microscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 044507.	3.0	73

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163	Kinetics of the liquid-liquid transition of triphenyl phosphite. <i>Physical Review B</i> , 2006, 73, .	3.2	32
164	Wetting-induced depletion interaction between particles in a phase-separating liquid mixture. <i>Physical Review E</i> , 2006, 73, 061506.	2.1	54
165	Colloidal Aggregation in a Nematic Liquid Crystal: Topological Arrest of Particles by a Single-Stroke Disclination Line. <i>Physical Review Letters</i> , 2006, 97, 127801.	7.8	120
166	Stripe pattern formation in phase separation accompanying orientational ordering under an external field. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L305-L314.	1.8	4
167	Self-organization in phase separation of a lyotropic liquid crystal into cellular, network and droplet morphologies. <i>Nature Materials</i> , 2006, 5, 147-152.	27.5	50
168	Frustration on the way to crystallization in glass. <i>Nature Physics</i> , 2006, 2, 200-206.	16.7	332
169	Violation of the incompressibility of liquid by simple shear flow. <i>Nature</i> , 2006, 443, 434-438.	27.8	53
170	Viscoelastic phase separation in soft matter: Numerical-simulation study on its physical mechanism. <i>Chemical Engineering Science</i> , 2006, 61, 2108-2141.	3.8	95
171	Fragility Control Using the Liquid-Liquid Transition in Molecular Liquid. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
172	Shear-induced discontinuous and continuous topological transitions in a hyperswollen membrane system. <i>Physical Review E</i> , 2006, 73, 021503.	2.1	4
173	Surface-sensitive particle selection by driving particles in a nematic solvent. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L193-L203.	1.8	30
174	Universality of viscoelastic phase separation in soft matter. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3195-S3204.	1.8	18
175	Roles of hydrodynamic interactions in structure formation of soft matter: protein folding as an example. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2795-S2803.	1.8	23
176	On the abundance and general nature of the liquid-liquid phase transition in molecular systems. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L293-L302.	1.8	116
177	Fluid structure in colloid-polymer mixtures: the competition between electrostatics and depletion. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3401-S3408.	1.8	24
178	Kinetics of ergodic-to-nonergodic transitions in charged colloidal suspensions: Aging and gelation. <i>Physical Review E</i> , 2005, 71, 021402.	2.1	103
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