

Hajime Tanaka

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266
papers

11,582
citations

57
h-index

98
g-index

298
ext. papers

12,933
ext. citations

6.8
avg, IF

7.21
L-index

#	Paper	IF	Citations
266	Water: A Tale of Two Liquids. <i>Chemical Reviews</i> , 2016 , 116, 7463-500	68.1	453
265	Universal link between the boson peak and transverse phonons in glass. <i>Nature Materials</i> , 2008 , 7, 870-727		386
264	Critical-like behaviour of glass-forming liquids. <i>Nature Materials</i> , 2010 , 9, 324-31	27	379
263	Viscoelastic phase separation. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, R207-R264	1.8	365
262	Frustration on the way to crystallization in glass. <i>Nature Physics</i> , 2006 , 2, 200-206	16.2	304
261	Formation of a crystal nucleus from liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14036-41	11.5	283
260	Simulation method of colloidal suspensions with hydrodynamic interactions: fluid particle dynamics. <i>Physical Review Letters</i> , 2000 , 85, 1338-41	7.4	263
259	Direct observation of a local structural mechanism for dynamic arrest. <i>Nature Materials</i> , 2008 , 7, 556-61	27	262
258	Bond orientational order in liquids: Towards a unified description of water-like anomalies, liquid-liquid transition, glass transition, and crystallization: Bond orientational order in liquids. <i>European Physical Journal E</i> , 2012 , 35, 113	1.5	232
257	Laponite: What Is the Difference between a Gel and a Glass?. <i>Langmuir</i> , 1999 , 15, 7534-7536	4	227
256	Correlation between dynamic heterogeneity and medium-range order in two-dimensional glass-forming liquids. <i>Physical Review Letters</i> , 2007 , 99, 215701	7.4	214
255	Nonergodic states of charged colloidal suspensions: repulsive and attractive glasses and gels. <i>Physical Review E</i> , 2004 , 69, 031404	2.4	209
254	Roles of icosahedral and crystal-like order in the hard spheres glass transition. <i>Nature Communications</i> , 2012 , 3, 974	17.4	208
253	Understanding water's anomalies with locally favoured structures. <i>Nature Communications</i> , 2014 , 5, 3556	7.4	199
252	Critical-like phenomena associated with liquid-liquid transition in a molecular liquid. <i>Science</i> , 2004 , 306, 845-8	33.3	181
251	The microscopic pathway to crystallization in supercooled liquids. <i>Scientific Reports</i> , 2012 , 2, 505	4.9	176
250	Relationship among glass-forming ability, fragility, and short-range bond ordering of liquids. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 678-690	3.9	165

249	Liquid-liquid transition in the molecular liquid triphenyl phosphite. <i>Physical Review Letters</i> , 2004 , 92, 025701	7.4	165
248	Laponite: aging and shear rejuvenation of a colloidal glass. <i>Physical Review Letters</i> , 2002 , 89, 015701	7.4	161
247	Liquid-liquid transition without macroscopic phase separation in a water-glycerol mixture. <i>Nature Materials</i> , 2012 , 11, 436-43	27	151
246	New metastable form of ice and its role in the homogeneous crystallization of water. <i>Nature Materials</i> , 2014 , 13, 733-9	27	140
245	Relation between thermodynamics and kinetics of glass-forming liquids. <i>Physical Review Letters</i> , 2003 , 90, 055701	7.4	131
244	Application of digital image analysis to pattern formation in polymer systems. <i>Journal of Applied Physics</i> , 1986 , 59, 3627-3643	2.5	115
243	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	7.4	113
242	Interplay between wetting and phase separation in binary fluid mixtures: roles of hydrodynamics. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 4637-4674	1.8	113
241	Structural origin of enhanced slow dynamics near a wall in glass-forming systems. <i>Nature Materials</i> , 2011 , 10, 512-20	27	110
240	Memory and topological frustration in nematic liquid crystals confined in porous materials. <i>Nature Materials</i> , 2011 , 10, 303-9	27	107
239	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	101
238	Kinetics of ergodic-to-nonergodic transitions in charged colloidal suspensions: aging and gelation. <i>Physical Review E</i> , 2005 , 71, 021402	2.4	100
237	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	3.9	94
236	Direct observation of medium-range crystalline order in granular liquids near the glass transition. <i>Physical Review Letters</i> , 2008 , 100, 158002	7.4	91
235	Simple view of waterlike anomalies of atomic liquids with directional bonding. <i>Physical Review B</i> , 2002 , 66,	3.3	87
234	Key role of hydrodynamic interactions in colloidal gelation. <i>Physical Review Letters</i> , 2010 , 104, 245702	7.4	84
233	Multiple nonergodic disordered states in Laponite suspensions: a phase diagram. <i>Physical Review E</i> , 2008 , 78, 061405	2.4	83
232	Role of diffusion-weighted magnetic resonance imaging in predicting sensitivity to chemoradiotherapy in muscle-invasive bladder cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, e21-7	4	82

231	Structural and dynamical features of multiple metastable glassy states in a colloidal system with competing interactions. <i>Physical Review Letters</i> , 2010 , 104, 165702	7.4	80
230	Two-order-parameter model of the liquid-glass transition. I. Relation between glass transition and crystallization. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 3371-3384	3.9	79
229	Revealing key structural features hidden in liquids and glasses. <i>Nature Reviews Physics</i> , 2019 , 1, 333-348	23.6	78
228	Viscoelastic phase separation in soft matter: Numerical-simulation study on its physical mechanism. <i>Chemical Engineering Science</i> , 2006 , 61, 2108-2141	4.4	77
227	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	11.5	77
226	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	76
225	Three-Dimensional Numerical Simulations of Viscoelastic Phase Separation: Morphological Characteristics. <i>Macromolecules</i> , 2001 , 34, 1953-1963	5.5	76
224	Possible resolution of the Kauzmann paradox in supercooled liquids. <i>Physical Review E</i> , 2003 , 68, 011505	2.4	75
223	Crystal nucleation as the ordering of multiple order parameters. <i>Journal of Chemical Physics</i> , 2016 , 145, 211801	3.9	75
222	Morphological and kinetic evolution of surface patterns in gels during the swelling process: Evidence of dynamic pattern ordering. <i>Physical Review Letters</i> , 1992 , 68, 2794-2797	7.4	74
221	Selection mechanism of polymorphs in the crystal nucleation of the Gaussian core model. <i>Soft Matter</i> , 2012 , 8, 4206	3.6	72
220	Inhomogeneous flow and fracture of glassy materials. <i>Nature Materials</i> , 2009 , 8, 601-9	27	71
219	Importance of many-body orientational correlations in the physical description of liquids. <i>Faraday Discussions</i> , 2013 , 167, 9-76	3.6	70
218	Anisotropic cooperative structural rearrangements in sheared supercooled liquids. <i>Physical Review Letters</i> , 2009 , 102, 016001	7.4	70
217	Anomalous phonon scattering and elastic correlations in amorphous solids. <i>Nature Materials</i> , 2016 , 15, 1177-1181	27	68
216	Two-order-parameter model of the liquid-glass transition. II. Structural relaxation and dynamic heterogeneity. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 3385-3395	3.9	66
215	Origin of the excess wing and slow beta relaxation of glass formers: a unified picture of local orientational fluctuations. <i>Physical Review E</i> , 2004 , 69, 021502	2.4	65
214	Measuring colloidal interactions with confocal microscopy. <i>Journal of Chemical Physics</i> , 2007 , 127, 044503	3.9	61

213	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	58
212	Direct observation of hydrodynamic instabilities in a driven non-uniform colloidal dispersion. <i>Soft Matter</i> , 2009 , 5, 1340	3.6	58
211	Transition from metastability to instability in a binary-liquid mixture. <i>Physical Review Letters</i> , 1990 , 65, 3136-3139	7.4	57
210	Lifetimes and lengthscales of structural motifs in a model glassformer. <i>Faraday Discussions</i> , 2013 , 167, 405-23	3.6	55
209	Common microscopic structural origin for water's thermodynamic and dynamic anomalies. <i>Journal of Chemical Physics</i> , 2018 , 149, 224502	3.9	52
208	Structure and kinetics in the freezing of nearly hard spheres. <i>Soft Matter</i> , 2013 , 9, 297-305	3.6	51
207	Diffusion-weighted magnetic resonance imaging in the differentiation of angiomyolipoma with minimal fat from clear cell renal cell carcinoma. <i>International Journal of Urology</i> , 2011 , 18, 727-30	2.3	50
206	Possible origin of enhanced crystal growth in a glass. <i>Physical Review B</i> , 2007 , 76,	3.3	50
205	Wetting-induced depletion interaction between particles in a phase-separating liquid mixture. <i>Physical Review E</i> , 2006 , 73, 061506	2.4	49
204	General nature of liquid-liquid transition in aqueous organic solutions. <i>Nature Communications</i> , 2013 , 4, 2844	17.4	48
203	Revealing Hidden Structural Order Controlling Both Fast and Slow Glassy Dynamics in Supercooled Liquids. <i>Physical Review X</i> , 2018 , 8,	9.1	47
202	A novel coarsening mechanism of droplets in immiscible fluid mixtures. <i>Nature Communications</i> , 2015 , 6, 7407	17.4	46
201	Purely hydrodynamic ordering of rotating disks at a finite Reynolds number. <i>Nature Communications</i> , 2015 , 6, 5994	17.4	46
200	Bridging length scales in colloidal liquids and interfaces from near-critical divergence to single particles. <i>Nature Physics</i> , 2007 , 3, 636-640	16.2	46
199	Nonequilibrium critical Casimir effect in binary fluids. <i>Physical Review Letters</i> , 2013 , 111, 055701	7.4	45
198	Viscoelastic phase separation in soft matter and foods. <i>Faraday Discussions</i> , 2012 , 158, 371-406; discussion 493-522	3.6	44
197	Nonlocal nature of the viscous transport in supercooled liquids: complex fluid approach to supercooled liquids. <i>Physical Review Letters</i> , 2009 , 103, 135703	7.4	44
196	Viscoelastic phase separation of protein solutions. <i>Physical Review Letters</i> , 2005 , 95, 078103	7.4	44

195	Liquid-liquid transition and polyamorphism. <i>Journal of Chemical Physics</i> , 2020 , 153, 130901	3.9	44
194	The reversibility and first-order nature of liquid-liquid transition in a molecular liquid. <i>Nature Communications</i> , 2016 , 7, 13438	17.4	44
193	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, 6920-4	11.5	43
192	Surface-wetting effects on the liquid-liquid transition of a single-component molecular liquid. <i>Nature Communications</i> , 2010 , 1, 16	17.4	43
191	Importance of many-body correlations in glass transition: an example from polydisperse hard spheres. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A536	3.9	42
190	Digital image analysis of droplet patterns in polymer systems: Point pattern. <i>Journal of Applied Physics</i> , 1989 , 65, 4480-4495	2.5	42
189	Violation of the incompressibility of liquid by simple shear flow. <i>Nature</i> , 2006 , 443, 434-8	50.4	41
188	Direct link between mechanical stability in gels and percolation of isostatic particles. <i>Science Advances</i> , 2019 , 5, eaav6090	14.3	40
187	Possible link of the V-shaped phase diagram to the glass-forming ability and fragility in a water-salt mixture. <i>Physical Review Letters</i> , 2011 , 106, 125703	7.4	40
186	Self-organization in phase separation of a lyotropic liquid crystal into cellular, network and droplet morphologies. <i>Nature Materials</i> , 2006 , 5, 147-52	27	40
185	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	11.5	38
184	Network-forming phase separation of colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L143-L153	1.8	38
183	Two-order-parameter model of the liquid-glass transition. III. Universal patterns of relaxations in glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 3396-3413	3.9	38
182	Local structure and dynamics in colloidal fluids and gels. <i>Europhysics Letters</i> , 2008 , 84, 46002	1.6	37
181	Surface-assisted single-crystal formation of charged colloids. <i>Nature Physics</i> , 2017 , 13, 503-509	16.2	36
180	Probing Colloidal Gels at Multiple Length Scales: The Role of Hydrodynamics. <i>Physical Review Letters</i> , 2015 , 114, 258302	7.4	35
179	Spontaneous coarsening of a colloidal network driven by self-generated mechanical stress. <i>Europhysics Letters</i> , 2007 , 79, 58003	1.6	35
178	2017 AUA Renal Mass and Localized Renal Cancer Guidelines: Imaging Implications. <i>Radiographics</i> , 2018 , 38, 2021-2033	5.4	35

177	Vitrification and gelation in sticky spheres. <i>Journal of Chemical Physics</i> , 2018 , 148, 044501	3.9	34
176	Direct evidence of heterogeneous mechanical relaxation in supercooled liquids. <i>Physical Review E</i> , 2011 , 84, 061503	2.4	34
175	Optical manipulation of defects in a lyotropic lamellar phase. <i>Physical Review Letters</i> , 2003 , 90, 045501	7.4	34
174	Geometric frustration in small colloidal clusters. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 425103	1.8	33
173	Nonclassical pathways of crystallization in colloidal systems. <i>MRS Bulletin</i> , 2016 , 41, 369-374	3.2	33
172	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	1.9	32
171	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, 14077-90	3.4	32
170	Control of fluidity and miscibility of a binary liquid mixture by the liquid-liquid transition. <i>Nature Materials</i> , 2008 , 7, 647-52	27	32
169	Fluid particle dynamics simulation of charged colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, L115-L123	1.8	32
168	Defect science and engineering of liquid crystals under geometrical frustration. <i>Soft Matter</i> , 2013 , 9, 8107	3.6	31
167	Hydrodynamic selection of the kinetic pathway of a polymer coil-globule transition. <i>Physical Review Letters</i> , 2009 , 102, 108303	7.4	31
166	Nematohydrodynamic Effects on the Phase Separation of a Symmetric Mixture of an Isotropic Liquid and a Liquid Crystal. <i>Physical Review Letters</i> , 2004 , 93,	7.4	31
165	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	16.4	30
164	Microscopic structural descriptor of liquid water. <i>Journal of Chemical Physics</i> , 2018 , 148, 124503	3.9	30
163	Novel kinetic trapping in charged colloidal clusters due to self-induced surface charge organization. <i>Scientific Reports</i> , 2013 , 3, 2072	4.9	30
162	Kinetics of the liquid-liquid transition of triphenyl phosphite. <i>Physical Review B</i> , 2006 , 73,	3.3	30
161	Formation of porous crystals via viscoelastic phase separation. <i>Nature Materials</i> , 2017 , 16, 1022-1028	27	29
160	Common mechanism of thermodynamic and mechanical origin for ageing and crystallization of glasses. <i>Nature Communications</i> , 2017 , 8, 15954	17.4	29

159	Surface-sensitive particle selection by driving particles in a nematic solvent. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, L193-L203	1.8	29
158	Dynamic control of the photonic smectic order of membranes. <i>Nature Materials</i> , 2005 , 4, 75-80	27	29
157	Glass Forming Ability in Systems with Competing Orderings. <i>Physical Review X</i> , 2018 , 8,	9.1	29
156	Distinct signature of local tetrahedral ordering in the scattering function of covalent liquids and glasses. <i>Science Advances</i> , 2019 , 5, eaav3194	14.3	28
155	Structural order as a genuine control parameter of dynamics in simple glass formers. <i>Nature Communications</i> , 2019 , 10, 5596	17.4	28
154	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, 5956-61	11.5	27
153	Structural evolution in the aging process of supercooled colloidal liquids. <i>Physical Review E</i> , 2014 , 89, 062315	2.4	27
152	The interplay of sedimentation and crystallization in hard-sphere suspensions. <i>Soft Matter</i> , 2013 , 9, 7369-6	3.6	27
151	Physical principle for optimizing electrophoretic separation of charged particles. <i>Europhysics Letters</i> , 2008 , 82, 18004	1.6	27
150	The anomalies and criticality of liquid water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26591-26599	11.5	27
149	Evidence of liquid-liquid transition in triphenyl phosphite from time-resolved light scattering experiments. <i>Physical Review Letters</i> , 2014 , 112, 125702	7.4	26
148	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	26
147	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	11.5	25
146	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	3.6	24
145	Fracture phase separation. <i>Physical Review Letters</i> , 2009 , 102, 065701	7.4	24
144	Phase-ordering kinetics of the liquid-liquid transition in single-component molecular liquids. <i>Journal of Chemical Physics</i> , 2007 , 126, 204505	3.9	24
143	Control of the fragility of a glass-forming liquid using the liquid-liquid phase transition. <i>Physical Review Letters</i> , 2005 , 95, 065701	7.4	24
142	Nonuniversal nature of dynamic critical anomaly in polymer solutions. <i>Physical Review E</i> , 2002 , 65, 021802	2.4	24

141	Selective tetramodal bladder-preservation therapy, incorporating induction chemoradiotherapy and consolidative partial cystectomy with pelvic lymph node dissection for muscle-invasive bladder cancer: oncological and functional outcomes of 107 patients. <i>BJU International</i> , 2019 , 124, 242-250	5.6	23
140	Ageing, shear rejuvenation and avalanches in soft glassy materials. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S4987-S4992	1.8	22
139	Effect of Size Polydispersity on the Nature of Lennard-Jones Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11052-62	3.4	21
138	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, 9634-43	3.4	21
137	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	21
136	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	21
135	Multi-particle collision dynamics simulations of sedimenting colloidal dispersions in confinement. <i>Faraday Discussions</i> , 2010 , 144, 245-52; discussion 323-45, 467-81	3.6	20
134	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	11.5	20
133	Clinical Value of 18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography in Upper Tract Urothelial Carcinoma: Impact on Detection of Metastases and Patient Management. <i>Urologia Internationalis</i> , 2016 , 96, 65-72	1.9	19
132	The effect of inter-cluster interactions on the structure of colloidal clusters. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 760-766	3.9	19
131	Novel zone formation due to interplay between sedimentation and phase ordering. <i>Europhysics Letters</i> , 2010 , 89, 38006	1.6	19
130	Novel stable crystalline phase for the Stillinger-Weber potential. <i>Physical Review B</i> , 2014 , 90,	3.3	18
129	Dynamic scaling for anomalous transport in supercooled liquids. <i>Physical Review E</i> , 2012 , 86, 030501	2.4	18
128	Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 152101	1.8	17
127	Coarsening mechanism of phase separation caused by a double temperature quench in an off-symmetric binary mixture. <i>Physical Review E</i> , 2004 , 70, 051504	2.4	17
126	Roles of Energy Dissipation in a Liquid-Solid Transition of Out-of-Equilibrium Systems. <i>Physical Review X</i> , 2015 , 5,	9.1	16
125	Roles of bond orientational ordering in glass transition and crystallization. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 284115	1.8	16
124	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	7.4	16

123	The potential of chemical bonding to design crystallization and vitrification kinetics. <i>Nature Communications</i> , 2021 , 12, 4978	17.4	16
122	Clinical response to induction chemotherapy predicts improved survival outcome in urothelial carcinoma with clinical lymph nodal metastasis treated by consolidative surgery. <i>International Journal of Clinical Oncology</i> , 2015 , 20, 1171-8	4.2	15
121	Physical origin of glass formation from multicomponent systems. <i>Science Advances</i> , 2020 , 6,	14.3	15
120	Supramolecular flower micelle formation of polyrotaxane-containing triblock copolymers prepared from macro-chain transfer agents bearing molecular hooks. <i>Polymer Chemistry</i> , 2014 , 5, 4511-4520	4.9	15
119	Influence of patch-size variability on the crystallization of tetrahedral patchy particles. <i>Physical Review Letters</i> , 2014 , 113, 138303	7.4	15
118	Control of the liquid-liquid transition in a molecular liquid by spatial confinement. <i>Physical Review Letters</i> , 2007 , 98, 235701	7.4	15
117	Generic kinetic pathway of phase separation of deeply quenched polymer solutions: Transient gelation. <i>Europhysics Letters</i> , 2007 , 80, 68002	1.6	15
116	Spontaneous onion-structure formation from planar lamellar nuclei. <i>Physical Review Letters</i> , 2007 , 98, 145703	7.4	15
115	Stepwise algorithm using computed tomography and magnetic resonance imaging for diagnosis of fat-poor angiomyolipoma in small renal masses: Development and external validation. <i>International Journal of Urology</i> , 2017 , 24, 511-517	2.3	13
114	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, 11768-82	3.4	13
113	Role of Attractive Interactions in Structure Ordering and Dynamics of Glass-Forming Liquids. <i>Physical Review Letters</i> , 2020 , 124, 225501	7.4	13
112	A novel physical mechanism of liquid flow slippage on a solid surface. <i>Science Advances</i> , 2020 , 6, eaaz0504	4.3	13
111	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	11.5	13
110	Physical foundation of the fluid particle dynamics method for colloid dynamics simulation. <i>Soft Matter</i> , 2018 , 14, 3738-3747	3.6	12
109	Effect of Energy Polydispersity on the Nature of Lennard-Jones Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7704-13	3.4	12
108	On-chip thermal calibration with 8 CB liquid crystal of micro-thermal device. <i>Lab on A Chip</i> , 2007 , 7, 1600-72	7.2	12
107	Surface-assisted monodomain formation of an ordered phase of soft matter via the first-order phase transition. <i>Physical Review Letters</i> , 2005 , 95, 047801	7.4	12
106	Impact of Immunohistochemistry-Based Subtypes in Muscle-Invasive Bladder Cancer on Response to Chemoradiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1408-1416	4.16	12

105	Revealing Inherent Structural Characteristics of Jammed Particulate Packings. <i>Physical Review Letters</i> , 2019 , 122, 215502	7.4	11
104	Crystalline clusters in mW water: Stability, growth, and grain boundaries. <i>Journal of Chemical Physics</i> , 2019 , 151, 044505	3.9	11
103	Impact of complex topology of porous media on phase separation of binary mixtures. <i>Science Advances</i> , 2017 , 3, eaap9570	14.3	11
102	Universality of viscoelastic phase separation in soft matter. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S3195-S3204	1.8	11
101	Emergent solidity of amorphous materials as a consequence of mechanical self-organisation. <i>Nature Communications</i> , 2020 , 11, 4863	17.4	11
100	Numerical prediction of colloidal phase separation by direct computation of Navier-Stokes equation. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	10
99	Significant difference in the dynamics between strong and fragile glass formers. <i>Physical Review E</i> , 2016 , 94, 052607	2.4	10
98	A possible four-phase coexistence in a single-component system. <i>Nature Communications</i> , 2016 , 7, 12599	17.4	10
97	Vascularized Parenchymal Mass Preserved with Partial Nephrectomy: Functional Impact and Predictive Factors. <i>European Urology Oncology</i> , 2019 , 2, 97-103	6.7	9
96	Impact of spatial dimension on structural ordering in metallic glass. <i>Physical Review E</i> , 2017 , 96, 022613	2.4	9
95	Spontaneous partitioning of particles into cellular structures in a membrane system. <i>Physical Review Letters</i> , 2002 , 89, 168303	7.4	9
94	Superheterodyne light beating spectroscopy for Rayleigh-Brillouin scattering using frequency-tunable lasers. <i>Review of Scientific Instruments</i> , 2002 , 73, 1998-2010	1.7	9
93	The Complete Spectrum of Infiltrative Renal Masses: Clinical Characteristics and Prognostic Implications. <i>Urology</i> , 2019 , 130, 86-92	1.6	8
92	Revealing roles of competing local structural orderings in crystallization of polymorphic systems. <i>Science Advances</i> , 2020 , 6, eaaw8938	14.3	8
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