

Rei Kurita

List of Publications by Year in descending order

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50
papers

1,104
citations

471061

17
h-index

395343

33
g-index

51
all docs

51
docs citations

51
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical-Like Phenomena Associated with Liquid-Liquid Transition in a Molecular Liquid. <i>Science</i> , 2004, 306, 845-848.	6.0	202
2	Liquid-Liquid Transition in the Molecular Liquid Triphenyl Phosphite. <i>Physical Review Letters</i> , 2004, 92, 025701.	2.9	183
3	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.	0.7	116
4	Experimental study of random-close-packed colloidal particles. <i>Physical Review E</i> , 2010, 82, 011403.	0.8	74
5	Incompressibility of polydisperse random-close-packed colloidal particles. <i>Physical Review E</i> , 2011, 84, 030401.	0.8	58
6	Spatial distribution of lamella structure in PCL/PVB band spherulite investigated with microbeam small- and wide-angle X-ray scattering. <i>Polymer</i> , 2003, 44, 6397-6405.	1.8	42
7	Control of fluidity and miscibility of a binary liquid mixture by the liquid-liquid transition. <i>Nature Materials</i> , 2008, 7, 647-652.	13.3	35
8	Close relationship between a dry-wet transition and a bubble rearrangement in two-dimensional foam. <i>Scientific Reports</i> , 2016, 6, 37506.	1.6	35
9	Kinetics of the liquid-liquid transition of triphenyl phosphite. <i>Physical Review B</i> , 2006, 73, .	1.1	32
10	Co-existing handednesses of lamella twisting in one spherulite observed with scanning microbeam wide-angle X-ray scattering. <i>Polymer</i> , 2004, 45, 8299-8302.	1.8	30
11	Control of the Fragility of a Glass-Forming Liquid Using the Liquid-Liquid Phase Transition. <i>Physical Review Letters</i> , 2005, 95, 065701.	2.9	27
12	Glass transition of two-dimensional binary soft-disk mixtures with large size ratios. <i>Physical Review E</i> , 2010, 82, 041402.	0.8	27
13	Phase-ordering kinetics of the liquid-liquid transition in single-component molecular liquids. <i>Journal of Chemical Physics</i> , 2007, 126, 204505.	1.2	25
14	Selective Formation of Zigzag Edges in Graphene Cracks. <i>ACS Nano</i> , 2015, 9, 9027-9033.	7.3	24
15	Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 152101.	0.7	19
16	Measuring the size of individual particles from three-dimensional imaging experiments. <i>Nature Communications</i> , 2012, 3, 1127.	5.8	19
17	Control of pattern formation during phase separation initiated by a propagated trigger. <i>Scientific Reports</i> , 2017, 7, 6912.	1.6	18
18	Control of the Liquid-Liquid Transition in a Molecular Liquid by Spatial Confinement. <i>Physical Review Letters</i> , 2007, 98, 235701.	2.9	15

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19	Emergence of different crystal morphologies using the coffee ring effect. <i>Scientific Reports</i> , 2018, 8, 12503.	1.6	14
20	Dynamics and mechanism of liquid film collapse in a foam. <i>Soft Matter</i> , 2021, 17, 1738-1745.	1.2	14
21	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.	3.3	10
22	Dynamical transition of heat transport in a physical gel near the sol-gel transition. <i>Scientific Reports</i> , 2016, 5, 18667.	1.6	9
23	A new mechanism for dendritic pattern formation in dense systems. <i>Scientific Reports</i> , 2016, 6, 28960.	1.6	9
24	Dynamical transition in a jammed state of a quasi-two-dimensional foam. <i>Physical Review E</i> , 2017, 95, 062613.	0.8	7
25	In-situ observation of collective bubble collapse dynamics in a quasi-two-dimensional foam. <i>Scientific Reports</i> , 2019, 9, 5152.	1.6	7
26	Size distribution dependence of collective relaxation dynamics in a two-dimensional wet foam. <i>Scientific Reports</i> , 2021, 11, 2786.	1.6	7
27	Formation mechanism of hierarchical structure of crystal morphology in a sessile droplet. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
28	A topological transition by confinement of a phase separating system with radial quenching. <i>Scientific Reports</i> , 2019, 9, 15764.	1.6	5
29	Response of Soft Continuous Structures and Topological Defects to a Temperature Gradient. <i>Physical Review Letters</i> , 2017, 119, 108003.	2.9	4
30	Common Dynamical Features for Thermal Convection in Golden Syrup and Gelatin Solution. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 104402.	0.7	3
31	Ubiquitous transient stagnant domain formation during thermal convection in a well-mixed two component fluid with large viscosity difference. <i>Scientific Reports</i> , 2017, 7, 12983.	1.6	3
32	Mechanism behind columnar pattern formation during directional quenching-induced phase separation. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
33	Unstable yet static initial state: A universal method for studying Rayleigh-Taylor instability and lock exchange. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	3
34	Origin of nonlinear force distributions in a composite system. <i>Scientific Reports</i> , 2022, 12, 632.	1.6	3
35	Pinch-off from a foam droplet in a Hele-Shaw cell. <i>Soft Matter</i> , 2022, 18, 2137-2142.	1.2	3
36	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, , .	0.3	2

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37	Thermal Convection in a Thermosensitive Viscous Fluid with Inhomogeneous Cooling. Journal of the Physical Society of Japan, 2017, 86, 043402.	0.7	2
38	Pattern Formation during Phase Separation by Radial Quenching at the Base of a Three-Dimensional Box. Journal of the Physical Society of Japan, 2019, 88, 044603.	0.7	2
39	Transition Behavior in Silicone-coated Sand Mixtures. Journal of the Physical Society of Japan, 2021, 90, 033801.	0.7	2
40	One-Way Diffusion of Ionic Liquids in a Mixing Process with Water. Journal of the Physical Society of Japan, 2016, 85, 093001.	0.7	1
41	Mobility Enhancement of Red Blood Cells with Biopolymers. Journal of the Physical Society of Japan, 2016, 85, 033801.	0.7	1
42	Hidden linear defects in surfactant onions revealed by coalescence into lamellar layers. Physical Review Research, 2021, 3, .	1.3	1
43	Key connection between gravitational instability in physical gels and granular media. Scientific Reports, 2022, 12, 6290.	1.6	1
44	Filamentous crystal growth in organic liquids and selection of crystal morphology. Scientific Reports, 2022, 12, .	1.6	1
45	Fragility Control Using the Liquid-Liquid Transition in Molecular Liquid. AIP Conference Proceedings, 2006, , .	0.3	0
46	Kinetics and Control of Liquid-Liquid Transition. AIP Conference Proceedings, 2008, , .	0.3	0
47	Experimental study of the relationship between local particle-size distributions and local ordering in random close packing. Physical Review E, 2015, 92, 062305.	0.8	0
48	Active hole generation in a liquid droplet dissolving into a binary solvent. Soft Matter, 2018, 14, 4952-4957.	1.2	0
49	Mechanism of transient stagnant formation in convection of binary mixtures. Journal of Physics Condensed Matter, 2021, 33, 215101.	0.7	0
50	Dynamics and mechanism of a deswelling transition of the sponge phase in a bilayer membrane system. Physical Review Research, 2022, 4, .	1.3	0