

# Rei Kurita

## 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.

43  
papers

917  
citations

16  
h-index

30  
g-index

51  
ext. papers

1,026  
ext. citations

5.5  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
43	Origin of nonlinear force distributions in a composite system.. <i>Scientific Reports</i> , <b>2022</b> , 12, 632	4.9	0
42	Key connection between gravitational instability in physical gels and granular media.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6290	4.9	
41	Transition Behavior in Silicone-coated Sand Mixtures. <i>Journal of the Physical Society of Japan</i> , <b>2021</b> , 90, 033801	1.5	1
40	Dynamics and mechanism of liquid film collapse in a foam. <i>Soft Matter</i> , <b>2021</b> , 17, 1738-1745	3.6	4
39	Size distribution dependence of collective relaxation dynamics in a two-dimensional wet foam. <i>Scientific Reports</i> , <b>2021</b> , 11, 2786	4.9	1
38	Formation mechanism of hierarchical structure of crystal morphology in a sessile droplet. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
37	Mechanism behind columnar pattern formation during directional quenching-induced phase separation. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	2
36	In-situ observation of collective bubble collapse dynamics in a quasi-two-dimensional foam. <i>Scientific Reports</i> , <b>2019</b> , 9, 5152	4.9	2
35	A topological transition by confinement of a phase separating system with radial quenching. <i>Scientific Reports</i> , <b>2019</b> , 9, 15764	4.9	1
34	Unstable yet static initial state: A universal method for studying Rayleigh-Taylor instability and lock exchange. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	1
33	Pattern Formation during Phase Separation by Radial Quenching at the Base of a Three-Dimensional Box. <i>Journal of the Physical Society of Japan</i> , <b>2019</b> , 88, 044603	1.5	2
32	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> , <b>2019</b> , 116, 24949-24955	11.5	6
31	Active hole generation in a liquid droplet dissolving into a binary solvent. <i>Soft Matter</i> , <b>2018</b> , 14, 4952-4957	5.6	
30	Emergence of different crystal morphologies using the coffee ring effect. <i>Scientific Reports</i> , <b>2018</b> , 8, 12503	4.9	8
29	Thermal Convection in a Thermosensitive Viscous Fluid with Inhomogeneous Cooling. <i>Journal of the Physical Society of Japan</i> , <b>2017</b> , 86, 043402	1.5	2
28	Ubiquitous transient stagnant domain formation during thermal convection in a well-mixed two component fluid with large viscosity difference. <i>Scientific Reports</i> , <b>2017</b> , 7, 12983	4.9	1
27	Response of Soft Continuous Structures and Topological Defects to a Temperature Gradient. <i>Physical Review Letters</i> , <b>2017</b> , 119, 108003	7.4	3

26	Control of pattern formation during phase separation initiated by a propagated trigger. <i>Scientific Reports</i> , <b>2017</b> , 7, 6912	4.9	13
25	Dynamical transition in a jammed state of a quasi-two-dimensional foam. <i>Physical Review E</i> , <b>2017</b> , 95, 062613	2.4	5
24	A new mechanism for dendritic pattern formation in dense systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 28960	4.9	7
23	Common Dynamical Features for Thermal Convection in Golden Syrup and Gelatin Solution. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 104402	1.5	2
22	Mobility Enhancement of Red Blood Cells with Biopolymers. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 033801	1.5	1
21	Close relationship between a dry-wet transition and a bubble rearrangement in two-dimensional foam. <i>Scientific Reports</i> , <b>2016</b> , 6, 37506	4.9	22
20	One-Way Diffusion of Ionic Liquids in a Mixing Process with Water. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 093001	1.5	1
19	Experimental study of the relationship between local particle-size distributions and local ordering in random close packing. <i>Physical Review E</i> , <b>2015</b> , 92, 062305	2.4	
18	Selective Formation of Zigzag Edges in Graphene Cracks. <i>ACS Nano</i> , <b>2015</b> , 9, 9027-33	16.7	18
17	Dynamical transition of heat transport in a physical gel near the sol-gel transition. <i>Scientific Reports</i> , <b>2015</b> , 5, 18667	4.9	7
16	Measuring the size of individual particles from three-dimensional imaging experiments. <i>Nature Communications</i> , <b>2012</b> , 3, 1127	17.4	16
15	Incompressibility of polydisperse random-close-packed colloidal particles. <i>Physical Review E</i> , <b>2011</b> , 84, 030401	2.4	49
14	Experimental study of random-close-packed colloidal particles. <i>Physical Review E</i> , <b>2010</b> , 82, 011403	2.4	58
13	Glass transition of two-dimensional binary soft-disk mixtures with large size ratios. <i>Physical Review E</i> , <b>2010</b> , 82, 041402	2.4	25
12	Control of fluidity and miscibility of a binary liquid mixture by the liquid-liquid transition. <i>Nature Materials</i> , <b>2008</b> , 7, 647-52	27	32
11	Dynamic Nature of the Liquid-Liquid Transition of Triphenyl Phosphite Studied by Simultaneous Measurements of Dielectric and Morphological Evolution. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
10	Phase-ordering kinetics of the liquid-liquid transition in single-component molecular liquids. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 204505	3.9	24
9	Control of the liquid-liquid transition in a molecular liquid by spatial confinement. <i>Physical Review Letters</i> , <b>2007</b> , 98, 235701	7.4	15

8	Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 152101	1.8	17
7	Kinetics of the liquid-liquid transition of triphenyl phosphite. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	30
6	On the abundance and general nature of the liquid-liquid phase transition in molecular systems. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, L293-L302	1.8	101
5	Control of the fragility of a glass-forming liquid using the liquid-liquid phase transition. <i>Physical Review Letters</i> , <b>2005</b> , 95, 065701	7.4	24
4	Co-existing handednesses of lamella twisting in one spherulite observed with scanning microbeam wide-angle X-ray scattering. <i>Polymer</i> , <b>2004</b> , 45, 8299-8302	3.9	27
3	Liquid-liquid transition in the molecular liquid triphenyl phosphite. <i>Physical Review Letters</i> , <b>2004</b> , 92, 025701	7.4	165
2	Critical-like phenomena associated with liquid-liquid transition in a molecular liquid. <i>Science</i> , <b>2004</b> , 306, 845-8	33.3	181
1	Spatial distribution of lamella structure in PCL/PVB band spherulite investigated with microbeam small- and wide-angle X-ray scattering. <i>Polymer</i> , <b>2003</b> , 44, 6397-6405	3.9	39