

# Ran Ni

## List of Publications by Year in descending order

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54  
papers

2,104  
citations

346980

22  
h-index

263392

45  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical clustering interrupts motility-induced phase separation in chiral active Brownian particles. <i>Journal of Chemical Physics</i> , 2022, 156, 021102.	1.2	19
2	Mismatched ligand density enables ordered assembly of mixed-dimensional, cross-species materials. <i>Science Advances</i> , 2022, 8, .	4.7	3
3	Interplay between jamming and motility-induced phase separation in persistent self-propelling particles. <i>Physical Review E</i> , 2022, 106, .	0.8	3
4	Translational and rotational critical-like behaviors in the glass transition of colloidal ellipsoid monolayers. <i>Science Advances</i> , 2021, 7, .	4.7	12
5	Unconventional rheological properties in systems of deformable particles. <i>Soft Matter</i> , 2021, 17, 7708-7713.	1.2	2
6	Barrier-controlled nonequilibrium criticality in reactive particle systems. <i>Physical Review E</i> , 2021, 103, 052607.	0.8	1
7	Self-Assembly of Isostatic Self-Dual Colloidal Crystals. <i>Physical Review Letters</i> , 2021, 127, 018001.	2.9	10
8	Entropy-controlled cross-linking in linker-mediated vitrimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27111-27115.	3.3	19
9	Upconversion luminescenceâ€“infrared absorption nanoprobe for the detection of prostate-specific antigen. <i>Mikrochimica Acta</i> , 2020, 187, 516.	2.5	7
10	Supercrystallographic Reconstruction of 3D Nanorod Assembly with Collectively Anisotropic Upconversion Fluorescence. <i>Nano Letters</i> , 2020, 20, 7367-7374.	4.5	17
11	Hierarchical glass transition of hard hemidisks with local assemblies. <i>Soft Matter</i> , 2020, 16, 8108-8113.	1.2	2
12	Effect of particle size distribution on polydisperse hard disks. <i>Journal of Chemical Physics</i> , 2020, 153, 174501.	1.2	4
13	Frictional active Brownian particles. <i>Physical Review E</i> , 2020, 102, 032612.	0.8	4
14	Linker-mediated self-assembly of mobile DNA-coated colloids. <i>Science Advances</i> , 2020, 6, eaaz6921.	4.7	20
15	Dynamic Assembly of Active Colloids: Theory and Simulation. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000021.	1.3	25
16	Effect of heavy impurities on the dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2020, 152, 234502.	1.2	0
17	Thermalâ€“Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. <i>Advanced Materials</i> , 2020, 32, e1907030.	11.1	75
18	Hexatic phase in a model of active biological tissues. <i>Soft Matter</i> , 2020, 16, 3914-3920.	1.2	26

#	ARTICLE	IF	CITATIONS
19	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. <i>Advanced Materials</i> , 2020, 32, e2000991.	11.1	17
20	Stability phase diagram of active Brownian particles. <i>Physical Review Research</i> , 2020, 2, .	1.3	17
21	Melting and re-entrant melting of polydisperse hard disks. <i>Communications Physics</i> , 2019, 2, .	2.0	15
22	Hydrodynamics of random-organizing hyperuniform fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22983-22989.	3.3	45
23	Nonequilibrium strongly hyperuniform fluids of circle active particles with large local density fluctuations. <i>Science Advances</i> , 2019, 5, eaau7423.	4.7	81
24	Self-assembled multi-layer simple cubic photonic crystals of oppositely charged colloids in confinement. <i>Soft Matter</i> , 2019, 15, 3104-3110.	1.2	6
25	Entropy Stabilizes Floppy Crystals of Mobile DNA-Coated Colloids. <i>Physical Review Letters</i> , 2018, 120, 048003.	2.9	19
26	Self-Assembled Chiral Photonic Crystals from a Colloidal Helix Racemate. <i>ACS Nano</i> , 2018, 12, 6860-6870.	7.3	22
27	Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1605397.	7.8	118
28	Photoacoustic Imaging: Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging ( <i>Adv. Funct. Mater.</i> 8/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	2
29	Complexation of Polyelectrolytes with Hydrophobic Drug Molecules in Salt-Free Solution: Theory and Simulations. <i>Langmuir</i> , 2017, 33, 3900-3909.	1.6	10
30	Driving dynamic colloidal assembly using eccentric self-propelled colloids. <i>Soft Matter</i> , 2017, 13, 8940-8946.	1.2	32
31	Dual-mode immunoassay based on shape code and infrared absorption fingerprint signals of silica nanorods. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4207-4213.	1.9	4
32	Role of local assembly in the hierarchical crystallization of associating colloidal hard hemispheres. <i>Physical Review Materials</i> , 2017, 1, .	0.9	3
33	Modes of surface premelting in colloidal crystals composed of attractive particles. <i>Nature</i> , 2016, 531, 485-488.	13.7	69
34	Tunable Long Range Forces Mediated by Self-Propelled Colloidal Hard Spheres. <i>Physical Review Letters</i> , 2015, 114, 018302.	2.9	130
35	Competition between surface adsorption and folding of fibril-forming polypeptides. <i>Physical Review E</i> , 2015, 91, 022711.	0.8	7
36	Crystallizing hard-sphere glasses by doping with active particles. <i>Soft Matter</i> , 2014, 10, 6609-6613.	1.2	63

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37	Structural signatures of dynamic heterogeneities in monolayers of colloidal ellipsoids. <i>Nature Communications</i> , 2014, 5, 3829.	5.8	88
38	Interplay between Folding and Assembly of Fibril-Forming Polypeptides. <i>Physical Review Letters</i> , 2013, 111, 058101.	2.9	30
39	Effect of bond length fluctuations on crystal nucleation of hard bead chains. <i>Soft Matter</i> , 2013, 9, 365-369.	1.2	26
40	Pushing the glass transition towards random close packing using self-propelled hard spheres. <i>Nature Communications</i> , 2013, 4, 2704.	5.8	148
41	Surface roughness directed self-assembly of patchy particles into colloidal micelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10787-10792.	3.3	317
42	Phase diagram of colloidal hard superballs: from cubes via spheres to octahedra. <i>Soft Matter</i> , 2012, 8, 8826.	1.2	148
43	Crystal nucleation in binary hard-sphere mixtures: the effect of order parameter on the cluster composition. <i>Molecular Physics</i> , 2011, 109, 1213-1227.	0.8	12
44	Crystal nucleation of colloidal hard dumbbells. <i>Journal of Chemical Physics</i> , 2011, 134, 034501.	1.2	25
45	Simulation of nucleation in almost hard-sphere colloids: The discrepancy between experiment and simulation persists. <i>Journal of Chemical Physics</i> , 2011, 134, 134901.	1.2	82
46	Self-Assembly of a Colloidal Interstitial Solid with Tunable Sublattice Doping. <i>Physical Review Letters</i> , 2011, 107, 168302.	2.9	33
47	Crystal nucleation of hard spheres using molecular dynamics, umbrella sampling, and forward flux sampling: A comparison of simulation techniques. <i>Journal of Chemical Physics</i> , 2010, 133, 244115.	1.2	165
48	Glassy Dynamics, Spinodal Fluctuations, and the Kinetic Limit of Nucleation in Suspensions of Colloidal Hard Rods. <i>Physical Review Letters</i> , 2010, 105, 088302.	2.9	44
49	Release of Lysozyme from the Branched Polyelectrolyte-Lysozyme Complexation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4393-4400.	1.2	13
50	Polyelectrolyte-Macroion Complexation in 1:1 and 3:1 Salt Contents: A Brownian Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16505-16516.	1.2	3
51	Conformation of a Spherical Polyelectrolyte Brush in the Presence of Oppositely Charged Linear Polyelectrolytes. <i>Macromolecules</i> , 2008, 41, 5477-5484.	2.2	39
52	Effect of the Bridging Conformation of Polyelectrolytes on the Static and Dynamic Behavior of Macroions. <i>Langmuir</i> , 2008, 24, 10138-10144.	1.6	5
53	Nanopattern of the Inner Surface of Carbon Nanotubes for Self-Assembly of Nanoparticles: A Multistep Monte Carlo Method. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11802-11805.	1.5	3
54	A Monte Carlo Study of Spherical Electrical Double Layer of Macroions-Polyelectrolytes Systems in Salt Free Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26232-26239.	1.2	14