Chiu Fan Lee

List of Publications by Year
in descending order

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67 papers	2,373 citations	218592 26 h-index	223716 46 g-index
70 all docs	70 docs citations	70 times ranked	2595 citing authors

#	Article	IF	Citations
1	Polar Fluctuations Lead to Extensile Nematic Behavior in Confluent Tissues. Physical Review Letters, 2022, 128, 078001.	2.9	7
2	Metalloproteinase inhibition reduces AML growth, prevents stem cell loss, and improves chemotherapy effectiveness. Blood Advances, 2022, 6, 3126-3141.	2.5	12
3	Diversity of phase transitions and phase separations in active fluids. Physical Review Research, 2022, 4, .	1.3	8
4	Uncovering novel phase transitions in dense dry polar active fluids using a lattice Boltzmann method. New Journal of Physics, 2021, 23, 043047.	1.2	5
5	Regulation of biomolecular condensates by interfacial protein clusters. Science, 2021, 373, 1218-1224.	6.0	104
6	Scaling law and universal drop size distribution of coarsening in conversion-limited phase separation. Physical Review Research, 2021, 3, .	1.3	8
7	Moving, Reproducing, and Dying Beyond Flatland: Malthusian Flocks in Dimensions <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi><mml:mo>></mml:mo><mml:mn>2</mml:mn></mml:math>. Physical Review Letters, 2020, 125, 098003.	2.9	12
8	Universality class for a nonequilibrium state of matter: A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mr expansion study of Malthusian flocks. Physical Review E, 2020, 102, 022610.	0.8	4
9	Liquidâ€"liquid phase separation of type II diabetes-associated IAPP initiates hydrogelation and aggregation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12050-12061.	3.3	57
10	Formation of liquid-like cellular organelles depends on their composition. Nature, 2020, 581, 144-145.	13.7	5
11	Critical Motility-Induced Phase Separation Belongs to the Ising Universality Class. Physical Review Letters, 2019, 123, 068002.	2.9	52
12	Scaling behaviour of non-equilibrium planar N-atic spin systems under weak fluctuations. New Journal of Physics, 2019, 21, 073064.	1.2	3
13	Physics of active emulsions. Reports on Progress in Physics, 2019, 82, 064601.	8.1	176
14	Novel physics arising from phase transitions in biology. Journal Physics D: Applied Physics, 2019, 52, 023001.	1.3	21
15	Chemical-Reaction-Controlled Phase Separated Drops: Formation, Size Selection, and Coarsening. Physical Review Letters, 2018, 120, 078102.	2.9	69
16	Incompressible polar active fluids in the moving phase in dimensions d > 2. New Journal of Physics, 2018, 20, 113035.	1.2	19
17	Squeezed in three dimensions, moving in two: Hydrodynamic theory of three-dimensional incompressible easy-plane polar active fluids. Physical Review E, 2018, 98, .	0.8	3
18	Stress granule formation via ATP depletion-triggered phase separation. New Journal of Physics, 2018, 20, 045008.	1.2	29

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19	Equilibrium kinetics of self-assembling, semi-flexible polymers. Journal of Physics Condensed Matter, 2018, 30, 315102.	0.7	0
20	Insights into the Origin of Distinct Medin Fibril Morphologies Induced by Incubation Conditions and Seeding. International Journal of Molecular Sciences, 2018, 19, 1357.	1.8	5
21	Statistical Mechanics and Kinetics of Amyloid Fibrillation. World Scientific Lecture and Course Notes in Chemistry, 2017, , 113-186.	0.2	11
22	Droplet ripening in concentration gradients. New Journal of Physics, 2017, 19, 053021.	1.2	29
23	Interface stability, interface fluctuations, and the Gibbsâ€"Thomson relationship in motility-induced phase separations. Soft Matter, 2017, 13, 376-385.	1.2	28
24	Edge instability in incompressible planar active fluids. Physical Review E, 2017, 96, 062615.	0.8	11
25	Dynamics of the formation of a hydrogel by a pathogenic amyloid peptide: islet amyloid polypeptide. Scientific Reports, 2016, 6, 32124.	1.6	29
26	Percolation mechanism drives actin gels to the critically connected state. Physical Review E, 2016, 93, 052414.	0.8	5
27	Comment on â€œAnomalous Discontinuity at the Percolation Critical Point of Active Gelsâ€• Physical Review Letters, 2016, 116, 189801.	2.9	8
28	Mapping two-dimensional polar active fluids to two-dimensional soap and one-dimensional sandblasting. Nature Communications, 2016, 7, 12215.	5.8	45
29	Thermal breakage of a semiflexible polymer: breakage profile and rate. Journal of Physics Condensed Matter, 2015, 27, 275101.	0.7	6
30	Critical phenomenon of the orderâ€"disorder transition in incompressible active fluids. New Journal of Physics, 2015, 17, 042002.	1.2	45
31	Thermodynamic Costs of Information Processing in Sensory Adaptation. PLoS Computational Biology, 2014, 10, e1003974.	1.5	99
32	Designing Nonâ€Native Ironâ€Binding Site on a Protein Cage for Biological Synthesis of Nanoparticles. Small, 2014, 10, 3131-3138.	5.2	17
33	The airâ€"water interface determines the outcome of seeding during amyloidogenesis. Biochemical Journal, 2013, 456, 67-80.	1.7	15
34	Spatial Organization of the Cell Cytoplasm by Position-Dependent Phase Separation. Physical Review Letters, 2013, 111, 088101.	2.9	131
35	Active particles under confinement: aggregation at the wall and gradient formation inside a channel. New Journal of Physics, 2013, 15, 055007.	1.2	66
36	Fluctuations and the role of collision duration in reaction-diffusion systems. Europhysics Letters, 2013, 102, 58001.	0.7	8

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37	Combined Effects of Agitation, Macromolecular Crowding, and Interfaces on Amyloidogenesis. Journal of Biological Chemistry, 2012, 287, 38006-38019.	1.6	71
38	Length distribution of stiff, self-assembled polymers at thermal equilibrium. Journal of Physics Condensed Matter, 2012, 24, 415101.	0.7	4
39	Enrichment of Amyloidogenesis at an Air-Water Interface. Biophysical Journal, 2012, 102, 1154-1162.	0.2	56
40	Singular perturbation analysis of a reduced model for collective motion: A renormalization group approach. Physical Review E, 2011, 83, 031127.	0.8	7
41	NETWORK AUTOMATA: COUPLING STRUCTURE AND FUNCTION IN DYNAMIC NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 317-339.	0.9	16
42	Competing discrete interfacial effects are critical for amyloidogenesis. FASEB Journal, 2010, 24, 309-317.	0.2	48
43	Fluctuation-induced collective motion: A single-particle density analysis. Physical Review E, 2010, 81, 031125.	0.8	9
44	Predicting rare events in chemical reactions: Application to skin cell proliferation. Physical Review E, 2010, 82, 021103.	0.8	4
45	Rapidly detecting disorder in rhythmic biological signals: A spectral entropy measure to identify cardiac arrhythmias. Physical Review E, 2009, 79, 011915.	0.8	49
46	Isotropic-nematic phase transition in amyloid fibrilization. Physical Review E, 2009, 80, 031902.	0.8	19
47	Thermal breakage of a discrete one-dimensional string. Physical Review E, 2009, 80, 031134.	0.8	26
48	Lamin B1 controls oxidative stress responses via Oct-1. Journal of Cell Biology, 2009, 184, 45-55.	2.3	140
49	Elongation dynamics of amyloid fibrils: A rugged energy landscape picture. Physical Review E, 2009, 80, 041906.	0.8	24
50	Self-assembly of protein amyloids: A competition between amorphous and ordered aggregation. Physical Review E, 2009, 80, 031922.	0.8	38
51	Efficiency of energy transfer in a light-harvesting system under quantum coherence. Physical Review B, 2008, 78, .	1.1	268
52	Link-space formalism for network analysis. Physical Review E, 2008, 77, 036112.	0.8	8
53	Structural Elements Regulating Amyloidogenesis: A Cholinesterase Model System. PLoS ONE, 2008, 3, e1834.	1.1	11
54	Defects in lamin B1 expression or processing affect interphase chromosome position and gene expression. Journal of Cell Biology, 2007, 176, 593-603.	2.3	129

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55	The rule of bigeminy revisited: analysis in sudden cardiac death syndrome. Journal of Electrocardiology, 2007, 40, 78-88.	0.4	29
56	Sequential Recruitment and Combinatorial Assembling of Multiprotein Complexes in Transcriptional Activation. Physical Review Letters, 2006, 96, 198102.	2.9	31
57	Optically controlled spin glasses in multiqubit cavity systems. Physical Review B, 2006, 74, .	1.1	11
58	First-Order Superradiant Phase Transitions in a Multiqubit Cavity System. Physical Review Letters, 2004, 93, 083001.	2.9	50
59	Efficient quantum computation within a disordered Heisenberg spin chain. Physical Review A, 2004, 70, .	1.0	11
60	Game-theoretic discussion of quantum state estimation and cloning. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 429-433.	0.9	13
61	Stirling Numbers for Complex Arguments: Asymptotics and Identities. SIAM Journal on Discrete Mathematics, 2003, 16, 179-191.	0.4	4
62	Efficiency and formalism of quantum games. Physical Review A, 2003, 67, .	1.0	56
63	QUANTUM COHERENCE, CORRELATED NOISE AND PARRONDO GAMES. Fluctuation and Noise Letters, 2002, 02, L293-L298.	1.0	29
64	Let the quantum games begin. Physics World, 2002, 15, 25-29.	0.0	17
65	Exploiting randomness in quantum information processing. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 343-349.	0.9	30
66	Quantum Comparison Machines with One-Sided Error. Quantum Information Processing, 2002, 1, 253-256.	1.0	1
67	An infinite set of integral formulae for polar, nematic, and higher order structures at the interface of motility-induced phase separation. New Journal of Physics, 0, , .	1.2	0