

Chiu Fan Lee

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.

62
papers

1,709
citations

22
h-index

40
g-index

70
ext. papers

2,074
ext. citations

5.1
avg, IF

5.34
L-index

#	Paper	IF	Citations
62	Polar Fluctuations Lead to Extensile Nematic Behavior in Confluent Tissues.. <i>Physical Review Letters</i> , 2022 , 128, 078001	7.4	1
61	Uncovering novel phase transitions in dense dry polar active fluids using a lattice Boltzmann method. <i>New Journal of Physics</i> , 2021 , 23, 043047	2.9	0
60	Regulation of biomolecular condensates by interfacial protein clusters. <i>Science</i> , 2021 , 373, 1218-1224	33.3	20
59	Liquid-liquid phase separation of type II diabetes-associated IAPP initiates hydrogelation and aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12050-12061	11.5	19
58	Moving, Reproducing, and Dying Beyond Flatland: Malthusian Flocks in Dimensions $d > 2$. <i>Physical Review Letters</i> , 2020 , 125, 098003	7.4	2
57	Universality class for a nonequilibrium state of matter: A $d=4$ -Expansion study of Malthusian flocks. <i>Physical Review E</i> , 2020 , 102, 022610	2.4	2
56	Scaling behaviour of non-equilibrium planar N-atic spin systems under weak fluctuations. <i>New Journal of Physics</i> , 2019 , 21, 073064	2.9	1
55	Physics of active emulsions. <i>Reports on Progress in Physics</i> , 2019 , 82, 064601	14.4	72
54	Critical Motility-Induced Phase Separation Belongs to the Ising Universality Class. <i>Physical Review Letters</i> , 2019 , 123, 068002	7.4	25
53	Novel physics arising from phase transitions in biology. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 023001	10	15
52	Chemical-Reaction-Controlled Phase Separated Drops: Formation, Size Selection, and Coarsening. <i>Physical Review Letters</i> , 2018 , 120, 078102	7.4	41
51	Insights into the Origin of Distinct Medin Fibril Morphologies Induced by Incubation Conditions and Seeding. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	3
50	Incompressible polar active fluids in the moving phase in dimensions $d > 2$. <i>New Journal of Physics</i> , 2018 , 20, 113035	2.9	7
49	Squeezed in three dimensions, moving in two: Hydrodynamic theory of three-dimensional incompressible easy-plane polar active fluids. <i>Physical Review E</i> , 2018 , 98,	2.4	2
48	Stress granule formation via ATP depletion-triggered phase separation. <i>New Journal of Physics</i> , 2018 , 20, 045008	2.9	19
47	Equilibrium kinetics of self-assembling, semi-flexible polymers. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 315102	1.8	
46	Statistical Mechanics and Kinetics of Amyloid Fibrillation. <i>World Scientific Lecture and Course Notes in Chemistry</i> , 2017 , 113-186		7

45	Droplet ripening in concentration gradients. <i>New Journal of Physics</i> , 2017 , 19, 053021	2.9	21
44	Interface stability, interface fluctuations, and the Gibbs-Thomson relationship in motility-induced phase separations. <i>Soft Matter</i> , 2017 , 13, 376-385	3.6	19
43	Edge instability in incompressible planar active fluids. <i>Physical Review E</i> , 2017 , 96, 062615	2.4	8
42	Percolation mechanism drives actin gels to the critically connected state. <i>Physical Review E</i> , 2016 , 93, 052414	2.4	5
41	Comment on "Anomalous Discontinuity at the Percolation Critical Point of Active Gels". <i>Physical Review Letters</i> , 2016 , 116, 189801	7.4	5
40	Mapping two-dimensional polar active fluids to two-dimensional soap and one-dimensional sandblasting. <i>Nature Communications</i> , 2016 , 7, 12215	17.4	32
39	Dynamics of the formation of a hydrogel by a pathogenic amyloid peptide: islet amyloid polypeptide. <i>Scientific Reports</i> , 2016 , 6, 32124	4.9	22
38	Thermal breakage of a semiflexible polymer: breakage profile and rate. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 275101	1.8	5
37	Critical phenomenon of the order-disorder transition in incompressible active fluids. <i>New Journal of Physics</i> , 2015 , 17, 042002	2.9	28
36	Designing non-native iron-binding site on a protein cage for biological synthesis of nanoparticles. <i>Small</i> , 2014 , 10, 3131-8	11	16
35	Thermodynamic costs of information processing in sensory adaptation. <i>PLoS Computational Biology</i> , 2014 , 10, e1003974	5	74
34	The air-water interface determines the outcome of seeding during amyloidogenesis. <i>Biochemical Journal</i> , 2013 , 456, 67-80	3.8	15
33	Spatial organization of the cell cytoplasm by position-dependent phase separation. <i>Physical Review Letters</i> , 2013 , 111, 088101	7.4	110
32	Active particles under confinement: aggregation at the wall and gradient formation inside a channel. <i>New Journal of Physics</i> , 2013 , 15, 055007	2.9	47
31	Fluctuations and the role of collision duration in reaction-diffusion systems. <i>Europhysics Letters</i> , 2013 , 102, 58001	1.6	6
30	Length distribution of stiff, self-assembled polymers at thermal equilibrium. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 415101	1.8	3
29	Enrichment of amyloidogenesis at an air-water interface. <i>Biophysical Journal</i> , 2012 , 102, 1154-62	2.9	52
28	Combined effects of agitation, macromolecular crowding, and interfaces on amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38006-19	5.4	52

27	Singular perturbation analysis of a reduced model for collective motion: a renormalization group approach. <i>Physical Review E</i> , 2011 , 83, 031127	2.4	6
26	NETWORK AUTOMATA: COUPLING STRUCTURE AND FUNCTION IN DYNAMIC NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2011 , 14, 317-339	0.8	12
25	Competing discrete interfacial effects are critical for amyloidogenesis. <i>FASEB Journal</i> , 2010 , 24, 309-17	0.9	45
24	Fluctuation-induced collective motion: a single-particle density analysis. <i>Physical Review E</i> , 2010 , 81, 031125	2.4	9
23	Predicting rare events in chemical reactions: Application to skin cell proliferation. <i>Physical Review E</i> , 2010 , 82, 021103	2.4	4
22	Rapidly detecting disorder in rhythmic biological signals: a spectral entropy measure to identify cardiac arrhythmias. <i>Physical Review E</i> , 2009 , 79, 011915	2.4	33
21	Isotropic-nematic phase transition in amyloid fibrilization. <i>Physical Review E</i> , 2009 , 80, 031902	2.4	17
20	Thermal breakage of a discrete one-dimensional string. <i>Physical Review E</i> , 2009 , 80, 031134	2.4	23
19	Lamin B1 controls oxidative stress responses via Oct-1. <i>Journal of Cell Biology</i> , 2009 , 184, 45-55	7.3	126
18	Elongation dynamics of amyloid fibrils: a rugged energy landscape picture. <i>Physical Review E</i> , 2009 , 80, 041906	2.4	20
17	Self-assembly of protein amyloids: a competition between amorphous and ordered aggregation. <i>Physical Review E</i> , 2009 , 80, 031922	2.4	36
16	Efficiency of energy transfer in a light-harvesting system under quantum coherence. <i>Physical Review B</i> , 2008 , 78,	3.3	240
15	Link-space formalism for network analysis. <i>Physical Review E</i> , 2008 , 77, 036112	2.4	7
14	Structural elements regulating amyloidogenesis: a cholinesterase model system. <i>PLoS ONE</i> , 2008 , 3, e1834	3.7	9
13	The rule of bigeminy revisited: analysis in sudden cardiac death syndrome. <i>Journal of Electrocardiology</i> , 2007 , 40, 78-88	1.4	22
12	Defects in lamin B1 expression or processing affect interphase chromosome position and gene expression. <i>Journal of Cell Biology</i> , 2007 , 176, 593-603	7.3	119
11	Sequential recruitment and combinatorial assembling of multiprotein complexes in transcriptional activation. <i>Physical Review Letters</i> , 2006 , 96, 198102	7.4	27
10	Optically controlled spin glasses in multiqubit cavity systems. <i>Physical Review B</i> , 2006 , 74,	3.3	10

9	First-order superradiant phase transitions in a multiqubit cavity system. <i>Physical Review Letters</i> , 2004 , 93, 083001	7.4	43
8	Efficient quantum computation within a disordered Heisenberg spin chain. <i>Physical Review A</i> , 2004 , 70,	2.6	8
7	Game-theoretic discussion of quantum state estimation and cloning. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 429-433	2.3	9
6	Stirling Numbers for Complex Arguments: Asymptotics and Identities. <i>SIAM Journal on Discrete Mathematics</i> , 2003 , 16, 179-191	0.7	3
5	Efficiency and formalism of quantum games. <i>Physical Review A</i> , 2003 , 67,	2.6	50
4	Exploiting randomness in quantum information processing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002 , 301, 343-349	2.3	26
3	Quantum Comparison Machines with One-Sided Error. <i>Quantum Information Processing</i> , 2002 , 1, 253-256	1.6	1
2	QUANTUM COHERENCE, CORRELATED NOISE AND PARRONDO GAMES. <i>Fluctuation and Noise Letters</i> , 2002 , 02, L293-L298	1.2	27
1	Let the quantum games begin. <i>Physics World</i> , 2002 , 15, 25-29	0.5	15