

# Chiu Fan Lee

## List of Publications by Citations

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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	Efficiency of energy transfer in a light-harvesting system under quantum coherence. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	240
61	Lamin B1 controls oxidative stress responses via Oct-1. <i>Journal of Cell Biology</i> , <b>2009</b> , 184, 45-55	7.3	126
60	Defects in lamin B1 expression or processing affect interphase chromosome position and gene expression. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 593-603	7.3	119
59	Spatial organization of the cell cytoplasm by position-dependent phase separation. <i>Physical Review Letters</i> , <b>2013</b> , 111, 088101	7.4	110
58	Thermodynamic costs of information processing in sensory adaptation. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003974	5	74
57	Physics of active emulsions. <i>Reports on Progress in Physics</i> , <b>2019</b> , 82, 064601	14.4	72
56	Enrichment of amyloidogenesis at an air-water interface. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1154-62	2.9	52
55	Combined effects of agitation, macromolecular crowding, and interfaces on amyloidogenesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 38006-19	5.4	52
54	Efficiency and formalism of quantum games. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	50
53	Active particles under confinement: aggregation at the wall and gradient formation inside a channel. <i>New Journal of Physics</i> , <b>2013</b> , 15, 055007	2.9	47
52	Competing discrete interfacial effects are critical for amyloidogenesis. <i>FASEB Journal</i> , <b>2010</b> , 24, 309-17	0.9	45
51	First-order superradiant phase transitions in a multiqubit cavity system. <i>Physical Review Letters</i> , <b>2004</b> , 93, 083001	7.4	43
50	Chemical-Reaction-Controlled Phase Separated Drops: Formation, Size Selection, and Coarsening. <i>Physical Review Letters</i> , <b>2018</b> , 120, 078102	7.4	41
49	Self-assembly of protein amyloids: a competition between amorphous and ordered aggregation. <i>Physical Review E</i> , <b>2009</b> , 80, 031922	2.4	36
48	Rapidly detecting disorder in rhythmic biological signals: a spectral entropy measure to identify cardiac arrhythmias. <i>Physical Review E</i> , <b>2009</b> , 79, 011915	2.4	33
47	Mapping two-dimensional polar active fluids to two-dimensional soap and one-dimensional sandblasting. <i>Nature Communications</i> , <b>2016</b> , 7, 12215	17.4	32
46	Critical phenomenon of the order-disorder transition in incompressible active fluids. <i>New Journal of Physics</i> , <b>2015</b> , 17, 042002	2.9	28

45	Sequential recruitment and combinatorial assembling of multiprotein complexes in transcriptional activation. <i>Physical Review Letters</i> , <b>2006</b> , 96, 198102	7.4	27
44	QUANTUM COHERENCE, CORRELATED NOISE AND PARRONDO GAMES. <i>Fluctuation and Noise Letters</i> , <b>2002</b> , 02, L293-L298	1.2	27
43	Exploiting randomness in quantum information processing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2002</b> , 301, 343-349	2.3	26
42	Critical Motility-Induced Phase Separation Belongs to the Ising Universality Class. <i>Physical Review Letters</i> , <b>2019</b> , 123, 068002	7.4	25
41	Thermal breakage of a discrete one-dimensional string. <i>Physical Review E</i> , <b>2009</b> , 80, 031134	2.4	23
40	The rule of bigeminy revisited: analysis in sudden cardiac death syndrome. <i>Journal of Electrocardiology</i> , <b>2007</b> , 40, 78-88	1.4	22
39	Dynamics of the formation of a hydrogel by a pathogenic amyloid peptide: islet amyloid polypeptide. <i>Scientific Reports</i> , <b>2016</b> , 6, 32124	4.9	22
38	Droplet ripening in concentration gradients. <i>New Journal of Physics</i> , <b>2017</b> , 19, 053021	2.9	21
37	Elongation dynamics of amyloid fibrils: a rugged energy landscape picture. <i>Physical Review E</i> , <b>2009</b> , 80, 041906	2.4	20
36	Regulation of biomolecular condensates by interfacial protein clusters. <i>Science</i> , <b>2021</b> , 373, 1218-1224	33.3	20
35	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> , <b>2020</b> , 117, 12050-12061	11.5	19
34	Interface stability, interface fluctuations, and the Gibbs-Thomson relationship in motility-induced phase separations. <i>Soft Matter</i> , <b>2017</b> , 13, 376-385	3.6	19
33	Stress granule formation via ATP depletion-triggered phase separation. <i>New Journal of Physics</i> , <b>2018</b> , 20, 045008	2.9	19
32	Isotropic-nematic phase transition in amyloid fibrilization. <i>Physical Review E</i> , <b>2009</b> , 80, 031902	2.4	17
31	Designing non-native iron-binding site on a protein cage for biological synthesis of nanoparticles. <i>Small</i> , <b>2014</b> , 10, 3131-8	11	16
30	The air-water interface determines the outcome of seeding during amyloidogenesis. <i>Biochemical Journal</i> , <b>2013</b> , 456, 67-80	3.8	15
29	Let the quantum games begin. <i>Physics World</i> , <b>2002</b> , 15, 25-29	0.5	15
28	Novel physics arising from phase transitions in biology. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 023001		15

27	NETWORK AUTOMATA: COUPLING STRUCTURE AND FUNCTION IN DYNAMIC NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2011</b> , 14, 317-339	0.8	12
26	Optically controlled spin glasses in multiqubit cavity systems. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	10
25	Fluctuation-induced collective motion: a single-particle density analysis. <i>Physical Review E</i> , <b>2010</b> , 81, 031125	2.5	9
24	Structural elements regulating amyloidogenesis: a cholinesterase model system. <i>PLoS ONE</i> , <b>2008</b> , 3, e1834	3.7	9
23	Game-theoretic discussion of quantum state estimation and cloning. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2003</b> , 319, 429-433	2.3	9
22	Edge instability in incompressible planar active fluids. <i>Physical Review E</i> , <b>2017</b> , 96, 062615	2.4	8
21	Efficient quantum computation within a disordered Heisenberg spin chain. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	8
20	Statistical Mechanics and Kinetics of Amyloid Fibrillation. <i>World Scientific Lecture and Course Notes in Chemistry</i> , <b>2017</b> , 113-186		7
19	Link-space formalism for network analysis. <i>Physical Review E</i> , <b>2008</b> , 77, 036112	2.4	7
18	Incompressible polar active fluids in the moving phase in dimensions $d > 2$ . <i>New Journal of Physics</i> , <b>2018</b> , 20, 113035	2.9	7
17	Singular perturbation analysis of a reduced model for collective motion: a renormalization group approach. <i>Physical Review E</i> , <b>2011</b> , 83, 031127	2.4	6
16	Fluctuations and the role of collision duration in reaction-diffusion systems. <i>Europhysics Letters</i> , <b>2013</b> , 102, 58001	1.6	6
15	Thermal breakage of a semiflexible polymer: breakage profile and rate. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 275101	1.8	5
14	Percolation mechanism drives actin gels to the critically connected state. <i>Physical Review E</i> , <b>2016</b> , 93, 052414	2.4	5
13	Comment on "Anomalous Discontinuity at the Percolation Critical Point of Active Gels". <i>Physical Review Letters</i> , <b>2016</b> , 116, 189801	7.4	5
12	Predicting rare events in chemical reactions: Application to skin cell proliferation. <i>Physical Review E</i> , <b>2010</b> , 82, 021103	2.4	4
11	Insights into the Origin of Distinct Medin Fibril Morphologies Induced by Incubation Conditions and Seeding. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	3
10	Length distribution of stiff, self-assembled polymers at thermal equilibrium. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 415101	1.8	3

9	Stirling Numbers for Complex Arguments: Asymptotics and Identities. <i>SIAM Journal on Discrete Mathematics</i> , <b>2003</b> , 16, 179-191	0.7	3
8	Moving, Reproducing, and Dying Beyond Flatland: Malthusian Flocks in Dimensions $d > 2$ . <i>Physical Review Letters</i> , <b>2020</b> , 125, 098003	7.4	2
7	Universality class for a nonequilibrium state of matter: A $d=4$ -Expansion study of Malthusian flocks. <i>Physical Review E</i> , <b>2020</b> , 102, 022610	2.4	2
6	Squeezed in three dimensions, moving in two: Hydrodynamic theory of three-dimensional incompressible easy-plane polar active fluids. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	2
5	Scaling behaviour of non-equilibrium planar N-atic spin systems under weak fluctuations. <i>New Journal of Physics</i> , <b>2019</b> , 21, 073064	2.9	1
4	Quantum Comparison Machines with One-Sided Error. <i>Quantum Information Processing</i> , <b>2002</b> , 1, 253-256	1.6	1
3	Polar Fluctuations Lead to Extensile Nematic Behavior in Confluent Tissues.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 078001	7.4	1
2	Uncovering novel phase transitions in dense dry polar active fluids using a lattice Boltzmann method. <i>New Journal of Physics</i> , <b>2021</b> , 23, 043047	2.9	0
1	Equilibrium kinetics of self-assembling, semi-flexible polymers. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 315102	1.8	