

# Chi-Keung Chan

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

1,150  
citations

394421

19  
h-index

414414

32  
g-index

78  
all docs

78  
docs citations

78  
times ranked

716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anticipation and negative group delay in a retina. <i>Physical Review E</i> , 2021, 103, L020401.	2.1	5
2	Dynamics of beating cardiac tissue under slow periodic drives. <i>Physical Review E</i> , 2020, 101, 012201.	2.1	0
3	Astrocytic Regulation of Synchronous Bursting in Cortical Cultures: From Local to Global. <i>Cerebral Cortex Communications</i> , 2020, 1, tga053.	1.6	4
4	Modelling Predictive Information of Stochastic Dynamics in the Retina. <i>Lecture Notes in Computer Science</i> , 2018, , 246-257.	1.3	0
5	Cardiac alternans reduction by chaotic attractors in $T \hat{A} \pm \hat{T} \mu$ feedback control. <i>Europhysics Letters</i> , 2017, 117, 50001.	2.0	2
6	Propagation and synchronization of reverberatory bursts in developing cultured networks. <i>Journal of Computational Neuroscience</i> , 2017, 42, 177-185.	1.0	5
7	Effect of degassing on the aggregation of carbon nanotubes dispersed in water. <i>Europhysics Letters</i> , 2017, 120, 16004.	2.0	1
8	Characterization of Predictive Behavior of a Retina by Mutual Information. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 66.	2.1	14
9	Positive feedback and synchronized bursts in neuronal cultures. <i>PLoS ONE</i> , 2017, 12, e0187276.	2.5	23
10	Active Prediction in Dynamical Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 632-638.	1.3	0
11	Ionic characteristics in cardiac alternans suppression using $T \hat{A} \pm \hat{T} \mu$ feedback control. <i>Europhysics Letters</i> , 2016, 115, 48001.	2.0	6
12	Adaptive synchronization and anticipatory dynamical systems. <i>Physical Review E</i> , 2015, 92, 030701.	2.1	3
13	Intrinsic fluctuations of cell migration under different cellular densities. <i>Soft Matter</i> , 2014, 10, 3421.	2.7	7
14	Reconstruction of network structures from repeating spike patterns in simulated bursting dynamics. <i>Physical Review E</i> , 2014, 90, 012703.	2.1	6
15	Frequency enhancement in coupled noisy excitable elements: effects of network topology. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	2
16	Suppression of cardiac alternans by alternating-period-feedback stimulations. <i>Physical Review E</i> , 2013, 87, 042712.	2.1	14
17	Predicting self-terminating ventricular fibrillations in an isolated heart. <i>Europhysics Letters</i> , 2013, 104, 48002.	2.0	4
18	Heaping instabilities in a layered Bi-disperse granular bed. <i>Europhysics Letters</i> , 2012, 100, 44002.	2.0	1

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19	Map-based model of the cardiac action potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2894-2902.	2.1	4
20	Spiral waves in the heterogeneous excitable Kuramoto model. Europhysics Letters, 2011, 94, 60006.	2.0	3
21	Frequency Enhancement in Coupled Noisy Excitable Elements. Physical Review Letters, 2011, 106, 254102.	7.8	16
22	Effects of glial release and somatic receptors on bursting in synchronized neuronal networks. Physical Review E, 2011, 84, 011907.	2.1	4
23	Stretching and migration of DNA by solvent elasticity in an oscillatory flow. Physical Review E, 2011, 84, 021802.	2.1	2
24	Granular Gases in Compartmentalized Systems. Journal of the Physical Society of Japan, 2009, 78, 041001.	1.6	5
25	Zero-refractoriness spirals in phase-coupled excitable media. Physical Review E, 2009, 80, 065202.	2.1	1
26	Synchronization in growing heterogeneous media. Europhysics Letters, 2009, 86, 18001.	2.0	15
27	Synchronization Phenomena in Networks of Oscillatory and Excitable Luo-Rudy Cells. Understanding Complex Systems, 2009, , 107-126.	0.6	1
28	Temperature Oscillations in a Compartmentalized Bidisperse Granular Gas. Physical Review Letters, 2008, 100, 068001.	7.8	40
29	NEURONAL NETWORK GROWTH: MODEL AND EXPERIMENT. International Journal of Modern Physics B, 2007, 21, 4111-4116.	2.0	1
30	CONNECTIVITY INDUCED SYNCHRONIZATION IN CORTICAL NEURONAL NETWORKS. International Journal of Modern Physics B, 2007, 21, 4117-4123.	2.0	2
31	Cluster synchronization and spatio-temporal dynamics in networks of oscillatory and excitable Luo-Rudy cells. Chaos, 2007, 17, 015111.	2.5	45
32	Observation of two forms of conformations in the reentrant condensation of DNA. Physical Review E, 2007, 75, 041922.	2.1	7
33	Polymer turbulent drag reduction near the theta point. Europhysics Letters, 2007, 80, 58003.	2.0	23
34	Synchronized Bursting Induced by Network Connectivity in Cortical Neuronal Cultures. Journal of the Korean Physical Society, 2007, 50, 207.	0.7	0
35	DNA-Induced Turbulent Drag Reduction and Their Molecular Characteristics. AIP Conference Proceedings, 2006, , .	0.4	1
36	Growth of cortical neuronal networkin vitro: Modeling and analysis. Physical Review E, 2006, 73, 051906.	2.1	17

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37	Turbulent drag reduction characteristics induced by calf-thymus DNA. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 350, 84-88.	2.6	20
38	Effect of Turbulent Flow on Coil-Globule Transition of $\lambda$ -DNA. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1237-1240.	3.9	15
39	The Global Property of the Dilute-to-Dense Transition of Granular Flows in a 2D Channel. , 2005, , 559-567.		0
40	SCALING PROPERTY OF THE DILUTE-DENSE TRANSITION IN 2D GRANULAR FLOWS. <i>International Journal of Modern Physics B</i> , 2004, 18, 2441-2447.	2.0	1
41	Connectivities and Synchronous Firing in Cortical Neuronal Networks. <i>Physical Review Letters</i> , 2004, 93, 088101.	7.8	31
42	Global Nature of Dilute-to-Dense Transition of Granular Flows in a 2D Channel. <i>Physical Review Letters</i> , 2003, 91, 204301.	7.8	52
43	$\lambda$ -DNA Induced Turbulent Drag Reduction and Its Characteristics. <i>Macromolecules</i> , 2003, 36, 5348-5354.	4.8	37
44	Effects of Air on the Segregation of Particles in a Shaken Granular Bed. <i>Physical Review Letters</i> , 2003, 91, 014302.	7.8	100
45	Turbulent Drag Reduction and Degradation of DNA. <i>Physical Review Letters</i> , 2002, 89, 088302.	7.8	79
46	Dynamics of Spiral Waves under Phase Feedback Control in a Belousov-Zhabotinsky Reaction. <i>Physical Review Letters</i> , 2002, 89, 248302.	7.8	10
47	Spiral wave dynamics under feedback derived from a confined circular domain. <i>Physical Review E</i> , 2001, 64, 035201.	2.1	26
48	Scaling properties of avalanches from a collapsing granular pile. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 281, 404-412.	2.6	6
49	Surfactant wetting layer driven instability in a Hele-Shaw cell. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 288, 315-325.	2.6	9
50	Symmetric heaping in grains: A phenomenological model. <i>Physical Review E</i> , 2000, 61, 5593-5599.	2.1	8
51	Empty Site Models for Heap Formation in Vertically Vibrating Grains. <i>Physical Review Letters</i> , 1999, 83, 3832-3835.	7.8	29
52	Dynamics of phase separation of a binary mixture in the presence of polymer additives. , 1999, , .		0
53	Ambient pressure and single-bubble sonoluminescence. <i>Physical Review E</i> , 1998, 57, R32-R35.	2.1	30
54	Friction Induced Segregation of a Granular Binary Mixture in a Rotating Drum. <i>Physical Review Letters</i> , 1997, 79, 4994-4997.	7.8	38

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55	Observations of Surfactant Driven Instability in a Hele-Shaw Cell. <i>Physical Review Letters</i> , 1997, 79, 4381-4384.	7.8	18
56	Fast thickness profile measurement of a thin film by using a line scan charge coupled device camera. <i>Review of Scientific Instruments</i> , 1997, 68, 4525-4530.	1.3	2
57	Dynamics of the formation of an aureole in the bursting of soap films. <i>Physical Review E</i> , 1996, 54, R3117-R3120.	2.1	11
58	Convection patterns on the liquid-liquid interface of a phase-separated binary mixture. <i>Europhysics Letters</i> , 1996, 36, 123-128.	2.0	0
59	Anisotropic phase separation of a nonequilibrium liquid-liquid interface. <i>Physical Review Letters</i> , 1994, 72, 2915-2918.	7.8	9
60	Morphology and dynamics of a separating immiscible binary liquid mixture under gravity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 320-329.	2.6	1
61	Dynamics of Demixing of Binary Liquid Mixtures in an Inclined Cylinder. <i>Europhysics Letters</i> , 1993, 24, 365-371.	2.0	2
62	Measurement of the shape of a liquid-liquid interface by the method of light reflection. <i>Review of Scientific Instruments</i> , 1993, 64, 632-637.	1.3	13
63	Scaling Behaviour in the Demixing of a Binary-Liquid Mixture under Gravity. <i>Europhysics Letters</i> , 1992, 19, 311-316.	2.0	11
64	Chan and Liang Reply. <i>Physical Review Letters</i> , 1992, 68, 1963-1963.	7.8	0
65	Chan and Liang reply. <i>Physical Review Letters</i> , 1992, 68, 723-723.	7.8	1
66	Experimental study and model simulation of spinodal decomposition in a binary mixture under shear. <i>Physical Review A</i> , 1991, 43, 1826-1839.	2.5	62
67	Hydrodynamics, growth and interfaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 172, 87-102.	2.6	5
68	Scalings of growing self-organized surfaces. <i>Physical Review Letters</i> , 1991, 67, 1122-1125.	7.8	8
69	Effects of Shear on the Phase Transition of Binary Mixtures. <i>Europhysics Letters</i> , 1990, 11, 13-18.	2.0	31
70	Critical Phenomena in an Immiscible Lattice-Gas Cellular Automaton. <i>Europhysics Letters</i> , 1990, 13, 495-500.	2.0	15
71	Spinodal Decomposition under Shear: Towards a Two-Dimensional Growth?. <i>Europhysics Letters</i> , 1989, 9, 65-70.	2.0	24
72	Effects of Hydrodynamics on Growth: Spinodal Decomposition under Uniform Shear Flow. <i>Physical Review Letters</i> , 1988, 61, 412-415.	7.8	52

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73	Turbulent transition by photon-correlation spectroscopy. <i>Physical Review A</i> , 1988, 37, 2125-2133.	2.5	55
74	Simple overshoot-suppressed digital proportional-integral-derivative temperature controller. <i>Review of Scientific Instruments</i> , 1988, 59, 1001-1003.	1.3	5
75	Light-scattering study of a turbulent critical binary mixture near the critical point. <i>Physical Review A</i> , 1987, 35, 1756-1765.	2.5	15
76	Late-stage phase separation and hydrodynamic flow in a binary liquid mixture. <i>Physical Review Letters</i> , 1987, 58, 674-677.	7.8	32
77	Active-coupling mixing times for a stirred binary liquid. <i>Physical Review A</i> , 1985, 32, 3117-3117.	2.5	3