Chjan C Lim

List of Publications by Year
in descending order

52 papers	486 citations	840776 11 h-index	752698 20 g-index
55 all docs	55 docs citations	55 times ranked	202 citing authors

#	Article	IF	Citations
1	Phase transition to blob-hole coherent structure in the Hasegawa–Mima model for plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	0
2	General Jacobi Coordinates and Herman Resonance for Some Nonheliocentric Celestial N-body Problems. Regular and Chaotic Dynamics, 2020, 25, 149-165.	0.8	0
3	Analysis of an Ultra-Short True Time Delay Line Optical Reservoir Computer. Journal of Lightwave Technology, 2020, 38, 3584-3591.	4.6	4
4	Relevance and Importance Preferential Attachment. Complex Systems, 2019, 28, 333-356.	0.3	0
5	Solution to urn models of pairwise interaction with application to social, physical, and biological sciences. Physical Review E, 2017, 96, 012311.	2.1	3
6	Solution of the multistate voter model and application to strong neutrals in the naming game. Physical Review E, 2016, 93, 032318.	2.1	11
7	Analysis of the high-dimensional naming game with committed minorities. Physical Review E, 2016, 93, 052311.	2.1	12
8	Social opinion dynamics is not chaotic. International Journal of Modern Physics B, 2016, 30, 1541006.	2.0	1
9	Solution of the voter model by spectral analysis. Physical Review E, 2015, 91, 012812.	2.1	4
10	Propensity and stickiness in the naming game: Tipping fractions of minorities. Physical Review E, 2014, 90, 042809.	2.1	15
11	Introduction to Vortex Filaments in Equilibrium. Springer Monographs in Mathematics, 2014, , .	0.2	3
12	Opinion Dynamics and Influencing on Random Geometric Graphs. Scientific Reports, 2014, 4, 5568.	3.3	15
13	Plasmas. Springer Monographs in Mathematics, 2014, , 81-97.	0.2	0
14	Quasi-2D Monte Carlo in Deep Ocean Convection. Springer Monographs in Mathematics, 2014, , 111-127.	0.2	0
15	Parallel Filaments. Springer Monographs in Mathematics, 2014, , 43-56.	0.2	0
16	A coauthorship network and preliminary results of binary agreement model simulations. , 2013, , .		0
17	Naming game with greater stubbornness and unilateral zealots. , 2013, , .		7
18	Concentration and Stability of Community-Detecting Functions on Random Networks. Internet Mathematics, 2013, 9, 360-383.	0.7	0

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19	Phase transition to super-rotating atmospheres in a simple planetary model for a nonrotating massive planet: Exact solution. Physical Review E, 2012, 86, 066304.	2.1	5
20	A length-scale formula for confined quasi-two-dimensional plasmas. Journal of Plasma Physics, 2009, 75, 437-454.	2.1	3
21	First-order phase transition and high energy cyclonic spots in a shallow water model on a rapidly rotating sphere. Physics of Fluids, 2009, 21, 045102.	4.0	3
22	The role of higher vorticity moments in a variational formulation of Barotropic flows on a rotating sphere. Discrete and Continuous Dynamical Systems - Series B, 2009, 11, 717-740.	0.9	2
23	Energy extremals and nonlinear stability in a variational theory of a coupled barotropic flow - Rotating solid sphere system. Journal of Mathematical Physics, 2007, 48, 065603.	1.1	10
24	Phase transitions of the energy-relative enstrophy theory for a coupled barotropic fluid–rotating sphere system. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 152-164.	2.6	11
25	Phase transitions of barotropic flow coupled to a massive rotating sphere—Derivation of a fixed point equation by the Bragg method. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 43-60.	2.6	8
26	Extremal free energy in a simple mean field theory for a coupled Barotropic fluid - rotating sphere system. Discrete and Continuous Dynamical Systems, 2007, 19, 361-386.	0.9	6
27	Statistical equilibrium distributions of baroclinic vortices in a rotating two-layer model at low Froude numbers. Geophysical and Astrophysical Fluid Dynamics, 2006, 100, 503-524.	1.2	1
28	Energy Maximizers, Negative Temperatures, and Robust Symmetry Breaking in Vortex Dynamics on a Nonrotating Sphere. SIAM Journal on Applied Mathematics, 2005, 65, 2093-2106.	1.8	8
29	Recent Advances in 2D and 2.5D Vortex Statistics and Dynamics. , 2005, , .		1
30	Title is missing!. Regular and Chaotic Dynamics, 2005, 10, 239.	0.8	4
31	The spherical model of logarithmic potentials as examined by Monte Carlo methods. Physics of Fluids, 2004, 16, 4020-4027.	4.0	12
32	A Monte Carlo algorithm for free and coaxial ring extremal states of the vortex N-body problem on a sphere. Physica A: Statistical Mechanics and Its Applications, 2003, 328, 53-96.	2.6	3
33	Coherent structures in an energy-enstrophy theory for axisymmetric flows. Physics of Fluids, 2003, 15, 478-487.	4.0	10
34	Monte-Carlo and polyhedron-based simulations I: extremal states of the logarithmic N-body problem on a sphere. Discrete and Continuous Dynamical Systems - Series B, 2003, 3, 313-342.	0.9	6
35	Point vortex dynamics for coupled surface/interior QG and propagating heton clusters in models for ocean convection. Geophysical and Astrophysical Fluid Dynamics, 2001, 94, 177-220.	1.2	31
36	A long range spherical model and exact solutions of an energy enstrophy theory for two-dimensional turbulence. Physics of Fluids, 2001, 13, 1961-1973.	4.0	8

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37	Relative equilibria of point vortices on the sphere. Physica D: Nonlinear Phenomena, 2001, 148, 97-135.	2.8	69
38	Exact solutions of an energy-enstrophy theory for the barotropic vorticity equation on a rotating sphere. Physica A: Statistical Mechanics and Its Applications, 2001, 290, 131-158.	2.6	11
39	A microscopic derivation of the equilibrium energy density spectrum for barotropic turbulence on a sphere. Physica A: Statistical Mechanics and Its Applications, 2001, 294, 375-387.	2.6	2
40	Mean field theory and coherent structures for vortex dynamics on the plane. Physics of Fluids, 1999, 11, 1201-1207.	4.0	4
41	Relative equilibria of symmetricn-body problems on a sphere: Inverse and direct results. Communications on Pure and Applied Mathematics, 1998, 51, 341-371.	3.1	12
42	Resonant normal modes for time-reversible, equivariant vectorfields. Journal of Dynamics and Differential Equations, 1995, 7, 287-339.	1.9	2
43	A combinatorial perturbation method and Arnold's whiskered tori in vortex dynamics. Physica D: Nonlinear Phenomena, 1993, 64, 163-184.	2.8	8
44	Nonsingular sign patterns and the orthogonal group. Linear Algebra and Its Applications, 1993, 184, 1-12.	0.9	7
45	Nonexistence of Lyapunov functions and the instability of the von KÃ¡rmÃ¡n vortex streets. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2229-2233.	1.6	3
46	Time-Reversibility and Particle Sedimentation. SIAM Journal on Applied Mathematics, 1991, 51, 49-72.	1.8	49
47	Binary trees, symplectic matrices and the Jacobi coordinates of celestial mechanics. Archive for Rational Mechanics and Analysis, 1991, 115, 153-165.	2.4	11
48	Graph theory and a special class of symplectic transformations: The generalized Jacobi variables. Journal of Mathematical Physics, 1991, 32, 1-7.	1.1	24
49	Existence of KAM tori in the phase-space of lattice vortex systems. Zeitschrift Fur Angewandte Mathematik Und Physik, 1990, 41, 227-244.	1.4	17
50	Canonical transformations and graph theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 138, 258-266.	2.1	7
51	Periodic solutions for three sedimenting spheres. Physics of Fluids, 1988, 31, 3175.	1.4	42
52	Phase Transitions to Superrotation in a Coupled Fluidâ€"Rotating Sphere System. , 0, , 151-161.		2