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	Relative equilibria of point vortices on the sphere. Physica D: Nonlinear Phenomena, 2001, 148, 97-135.	2.8	69
2	Time-Reversibility and Particle Sedimentation. SIAM Journal on Applied Mathematics, 1991, 51, 49-72.	1.8	49
3	Periodic solutions for three sedimenting spheres. Physics of Fluids, 1988, 31, 3175.	1.4	42
4	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
5	Graph theory and a special class of symplectic transformations: The generalized Jacobi variables. Journal of Mathematical Physics, 1991, 32, 1-7.	1.1	24
6	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
7	Propensity and stickiness in the naming game: Tipping fractions of minorities. Physical Review E, 2014, 90, 042809.	2.1	15
8	Opinion Dynamics and Influencing on Random Geometric Graphs. Scientific Reports, 2014, 4, 5568.	3.3	15
9	Relative equilibria of symmetric n-body problems on a sphere: Inverse and direct results. Communications on Pure and Applied Mathematics, 1998, 51, 341-371.	3.1	12
10	The spherical model of logarithmic potentials as examined by Monte Carlo methods. Physics of Fluids, 2004, 16, 4020-4027.	4.0	12
11	Analysis of the high-dimensional naming game with committed minorities. Physical Review E, 2016, 93, 052311.	2.1	12
12	Binary trees, symplectic matrices and the Jacobi coordinates of celestial mechanics. Archive for Rational Mechanics and Analysis, 1991, 115, 153-165.	2.4	11
13	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
14	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
15	Solution of the multistate voter model and application to strong neutrals in the naming game. Physical Review E, 2016, 93, 032318.	2.1	11
16	Coherent structures in an energy-enstrophy theory for axisymmetric flows. Physics of Fluids, 2003, 15, 478-487.	4.0	10
17	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
18	A combinatorial perturbation method and Arnold's whiskered tori in vortex dynamics. Physica D: Nonlinear Phenomena, 1993, 64, 163-184.	2.8	8

#	Article	IF	Citations
19	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
20	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
21	Phase transitions of barotropic flow coupled to a massive rotating sphereâ€"Derivation of a fixed point equation by the Bragg method. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 43-60.	2.6	8
22	Canonical transformations and graph theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 138, 258-266.	2.1	7
23	Nonsingular sign patterns and the orthogonal group. Linear Algebra and Its Applications, 1993, 184, 1-12.	0.9	7
24	Naming game with greater stubbornness and unilateral zealots. , 2013, , .		7
25	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
26	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
27	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
28	Mean field theory and coherent structures for vortex dynamics on the plane. Physics of Fluids, 1999, 11, 1201-1207.	4.0	4
29	Solution of the voter model by spectral analysis. Physical Review E, 2015, 91, 012812.	2.1	4
30	Analysis of an Ultra-Short True Time Delay Line Optical Reservoir Computer. Journal of Lightwave Technology, 2020, 38, 3584-3591.	4.6	4
31	Title is missing!. Regular and Chaotic Dynamics, 2005, 10, 239.	0.8	4
32	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
33	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
34	A length-scale formula for confined quasi-two-dimensional plasmas. Journal of Plasma Physics, 2009, 75, 437-454.	2.1	3
35	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
36	Introduction to Vortex Filaments in Equilibrium. Springer Monographs in Mathematics, 2014, , .	0.2	3

#	Article	IF	Citations
37	Solution to urn models of pairwise interaction with application to social, physical, and biological sciences. Physical Review E, 2017, 96, 012311.	2.1	3
38	Resonant normal modes for time-reversible, equivariant vectorfields. Journal of Dynamics and Differential Equations, 1995, 7, 287-339.	1.9	2
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	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
41	Phase Transitions to Superrotation in a Coupled Fluid—Rotating Sphere System. , 0, , 151-161.		2
42	Recent Advances in 2D and 2.5D Vortex Statistics and Dynamics. , 2005, , .		1
43	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
44	Social opinion dynamics is not chaotic. International Journal of Modern Physics B, 2016, 30, 1541006.	2.0	1
45	A coauthorship network and preliminary results of binary agreement model simulations. , 2013, , .		0
46	Concentration and Stability of Community-Detecting Functions on Random Networks. Internet Mathematics, 2013, 9, 360-383.	0.7	0
47	General Jacobi Coordinates and Herman Resonance for Some Nonheliocentric Celestial N-body Problems. Regular and Chaotic Dynamics, 2020, 25, 149-165.	0.8	0
48	Plasmas. Springer Monographs in Mathematics, 2014, , 81-97.	0.2	0
49	Quasi-2D Monte Carlo in Deep Ocean Convection. Springer Monographs in Mathematics, 2014, , 111-127.	0.2	0
50	Parallel Filaments. Springer Monographs in Mathematics, 2014, , 43-56.	0.2	0
51	Relevance and Importance Preferential Attachment. Complex Systems, 2019, 28, 333-356.	0.3	0
52	Phase transition to blob-hole coherent structure in the Hasegawa—Mima model for plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	0