

# Cristian Huepe

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,490  
citations

331670

21  
h-index

361022

35  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring the structure and dynamics of interactions in schooling fish. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18720-18725.	7.1	719
2	Collective States, Multistability and Transitional Behavior in Schooling Fish. PLoS Computational Biology, 2013, 9, e1002915.	3.2	319
3	Phase Transitions in Systems of Self-Propelled Agents and Related Network Models. Physical Review Letters, 2007, 98, 095702.	7.8	185
4	Self-organized flocking with a mobile robot swarm: a novel motion control method. Adaptive Behavior, 2012, 20, 460-477.	1.9	129
5	Intermittency and Clustering in a System of Self-Driven Particles. Physical Review Letters, 2004, 92, 168701.	7.8	97
6	Elasticity-Based Mechanism for the Collective Motion of Self-Propelled Particles with Springlike Interactions: A Model System for Natural and Artificial Swarms. Physical Review Letters, 2013, 111, 268302.	7.8	96
7	Title is missing!. Journal of Statistical Physics, 2003, 112, 135-153.	1.2	91
8	Decay Rates in Attractive Bose-Einstein Condensates. Physical Review Letters, 1999, 82, 1616-1619.	7.8	83
9	Collective dynamics of self-propelled particles with variable speed. Physical Review E, 2012, 86, 011901.	2.1	77
10	Flocking with informed agents. MathematicS in Action, 2008, 1, 1-25.	0.6	66
11	Adaptive-network models of swarm dynamics. New Journal of Physics, 2011, 13, 073022.	2.9	65
12	New tools for characterizing swarming systems: A comparison of minimal models. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2809-2822.	2.6	55
13	Scaling laws for vortical nucleation solutions in a model of superflow. Physica D: Nonlinear Phenomena, 2000, 140, 126-140.	2.8	53
14	Intrinsic and extrinsic noise effects on phase transitions of network models with applications to swarming systems. Physical Review E, 2008, 77, 061138.	2.1	48
15	Scale invariance in natural and artificial collective systems: a review. Journal of the Royal Society Interface, 2017, 14, 20170662.	3.4	46
16	Grossâ€Pitaevskii dynamics of Boseâ€Einstein condensates and superfluid turbulence. Fluid Dynamics Research, 2003, 33, 509-544.	1.3	45
17	Early fragmentation in the adaptive voter model on directed networks. Physical Review E, 2012, 85, 046107.	2.1	42
18	Stability and decay rates of nonisotropic attractive Bose-Einstein condensates. Physical Review A, 2003, 68, .	2.5	41

#	ARTICLE	IF	CITATIONS
19	Subcritical Dissipation in Three-Dimensional Superflows. <i>Physical Review Letters</i> , 2000, 84, 2191-2194.	7.8	40
20	Collective motion dynamics of active solids and active crystals. <i>New Journal of Physics</i> , 2013, 15, 095011.	2.9	35
21	Dynamical Phase Transition in a Neural Network Model with Noise: An Exact Solution. <i>Journal of Statistical Physics</i> , 2002, 108, 527-540.	1.2	27
22	Forcing function control of Faraday wave instabilities in viscous shallow fluids. <i>Physical Review E</i> , 2006, 73, 016310.	2.1	19
23	Scale-Free Correlations in Flocking Systems with Position-Based Interactions. <i>Journal of Statistical Physics</i> , 2015, 158, 549-562.	1.2	17
24	Statistics of defect trajectories in spatio-temporal chaos in inclined layer convection and the complex Ginzburg-Landau equation. <i>Chaos</i> , 2004, 14, 864-874.	2.5	14
25	Contagion dynamics in self-organized systems of self-propelled agents. <i>Scientific Reports</i> , 2022, 12, 2588.	3.3	12
26	Adaptive network models of collective decision making in swarming systems. <i>Physical Review E</i> , 2016, 94, 022415.	2.1	10
27	Experimental capabilities and limitations of a position-based control algorithm for swarm robotics. <i>Adaptive Behavior</i> , 2022, 30, 19-35.	1.9	9
28	Modeling Phase Transition in Self-organized Mobile Robot Flocks. <i>Lecture Notes in Computer Science</i> , 2008, , 108-119.	1.3	7
29	Modular hierarchical and power-law small-world networks bear structural optima for minimal first passage times and cover time. <i>Journal of Complex Networks</i> , 2019, 7, 865-895.	1.8	6
30	Order-disorder transitions in a minimal model of active elasticity. <i>New Journal of Physics</i> , 2021, 23, 023019.	2.9	6
31	Phases and homogeneous ordered states in alignment-based self-propelled particle models. <i>Physical Review E</i> , 2021, 104, 044605.	2.1	6
32	Interaction network effects on position- and velocity-based models of collective motion. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200165.	3.4	5
33	Generating music from flocking dynamics. , 2012, , .		4
34	Generic inflationary and noninflationary behavior in toy-cosmology. <i>Physica D: Nonlinear Phenomena</i> , 2000, 144, 20-36.	2.8	3
35	Numerical methods for bifurcation problems. <i>Nonlinear Phenomena and Complex Systems</i> , 2004, , 75-83.	0.0	2
36	Dynamics of the convergence towards a self-similar blowup solution in a simplified model of aggregation. <i>Nonlinearity</i> , 2002, 15, 1699-1715.	1.4	0

#	ARTICLE	IF	CITATIONS
37	Bifurcations in Attractive Bose-Einstein Condensates and Superfluid Helium. Nonlinear Phenomena and Complex Systems, 2004, , 43-68.	0.0	0
38	Transition to Dissipation in Two- and Three-Dimensional Superflows. , 2001, , 297-304.		0