

# Francesco Ginelli

## List of Publications by Year in descending order

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33  
papers

2,706  
citations

304743

22  
h-index

395702

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g-index

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all docs

33  
docs citations

33  
times ranked

1647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization in time-varying random networks with vanishing connectivity. <i>Scientific Reports</i> , 2019, 9, 10207.	3.3	14
2	Clustering and anisotropic correlated percolation in polar flocks. <i>Physical Review E</i> , 2019, 100, 022606.	2.1	7
3	Lyapunov analysis of multiscale dynamics: the slow bundle of the two-scale Lorenz 96 model. <i>Nonlinear Processes in Geophysics</i> , 2019, 26, 73-89.	1.3	10
4	Quantitative Assessment of the Toner and Tu Theory of Polar Flocks. <i>Physical Review Letters</i> , 2019, 123, 218001.	7.8	31
5	Desynchronization and pattern formation in a noisy feed-forward oscillator network. <i>Physical Review E</i> , 2019, 99, 012303.	2.1	6
6	Origin and scaling of chaos in weakly coupled phase oscillators. <i>Physical Review E</i> , 2018, 97, 012203.	2.1	2
7	Evidence of a Critical Phase Transition in Purely Temporal Dynamics with Long-Delayed Feedback. <i>Physical Review Letters</i> , 2018, 120, 173901.	7.8	15
8	Giant fluctuations and structural effects in a flocking epithelium. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 384003.	2.8	37
9	Intertangled stochastic motifs in networks of excitatory-inhibitory units. <i>Physical Review E</i> , 2017, 96, 022308.	2.1	4
10	Noise-driven neuromorphic tuned amplifier. <i>Physical Review E</i> , 2017, 96, 062313.	2.1	10
11	The Physics of the Vicsek model. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2099-2117.	2.6	108
12	Local equilibrium in bird flocks. <i>Nature Physics</i> , 2016, 12, 1153-1157.	16.7	80
13	Leading birds by their beaks: the response of flocks to external perturbations. <i>New Journal of Physics</i> , 2016, 18, 073039.	2.9	14
14	Intermittent collective dynamics emerge from conflicting imperatives in sheep herds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12729-12734.	7.1	134
15	Dynamical maximum entropy approach to flocking. <i>Physical Review E</i> , 2014, 89, 042707.	2.1	55
16	Large-Scale Chaos and Fluctuations in Active Nematics. <i>Physical Review Letters</i> , 2014, 113, 038302.	7.8	74
17	Mesoscopic theory for fluctuating active nematics. <i>New Journal of Physics</i> , 2013, 15, 085032.	2.9	101
18	Covariant Lyapunov vectors. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254005.	2.1	65

#	ARTICLE	IF	CITATIONS
19	Boundary Information Inflow Enhances Correlation in Flocking. <i>Physical Review Letters</i> , 2013, 110, 168107.	7.8	20
20	Deciphering Interactions in Moving Animal Groups. <i>PLoS Computational Biology</i> , 2012, 8, e1002678.	3.2	240
21	Continuous Theory of Active Matter Systems with Metric-Free Interactions. <i>Physical Review Letters</i> , 2012, 109, 098101.	7.8	65
22	Competing ferromagnetic and nematic alignment in self-propelled polar particles. <i>Physical Review E</i> , 2012, 86, 050101.	2.1	19
23	Nonlinear Field Equations for Aligning Self-Propelled Rods. <i>Physical Review Letters</i> , 2012, 109, 268701.	7.8	121
24	Hyperbolic decoupling of tangent space and effective dimension of dissipative systems. <i>Physical Review E</i> , 2011, 84, 046214.	2.1	38
25	Extensive and Subextensive Chaos in Globally Coupled Dynamical Systems. <i>Physical Review Letters</i> , 2011, 107, 124101.	7.8	33
26	Polar vs. apolar alignment in systems of polar self-propelled particles. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012014.	0.4	34
27	Relevance of Metric-Free Interactions in Flocking Phenomena. <i>Physical Review Letters</i> , 2010, 105, 168103.	7.8	174
28	Large-Scale Collective Properties of Self-Propelled Rods. <i>Physical Review Letters</i> , 2010, 104, 184502.	7.8	323
29	Hyperbolicity and the Effective Dimension of Spatially Extended Dissipative Systems. <i>Physical Review Letters</i> , 2009, 102, 074102.	7.8	67
30	Lyapunov Analysis Captures the Collective Dynamics of Large Chaotic Systems. <i>Physical Review Letters</i> , 2009, 103, 154103.	7.8	37
31	Collective motion of self-propelled particles interacting without cohesion. <i>Physical Review E</i> , 2008, 77, 046113.	2.1	505
32	Comment on "Phase Transitions in Systems of Self-Propelled Agents and Related Network Models". <i>Physical Review Letters</i> , 2007, 99, 229601.	7.8	47
33	Simple Model for Active Nematics: Quasi-Long-Range Order and Giant Fluctuations. <i>Physical Review Letters</i> , 2006, 96, 180602.	7.8	216