# Francesco Ginelli

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11773572/publications.pdf

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| 33 | 2,706 | 304743 | 395702 |
|---|---|---|---|
| papers | citations | 22 h-index | 33 g-index |

| 33 | 33 | 33 | 1647 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Collective motion of self-propelled particles interacting without cohesion. Physical Review E, 2008, 77, 046113. | 2.1 | 505 |
| 2 | Large-Scale Collective Properties of Self-Propelled Rods. Physical Review Letters, 2010, 104, 184502. | 7.8 | 323 |
| 3 | Deciphering Interactions in Moving Animal Groups. PLoS Computational Biology, 2012, 8, e1002678. | 3.2 | 240 |
| 4 | Simple Model for Active Nematics: Quasi-Long-Range Order and Giant Fluctuations. Physical Review Letters, 2006, 96, 180602. | 7.8 | 216 |
| 5 | Relevance of Metric-Free Interactions in Flocking Phenomena. Physical Review Letters, 2010, 105, 168103. | 7.8 | 174 |
| 6 | Intermittent collective dynamics emerge from conflicting imperatives in sheep herds. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12729-12734. | 7.1 | 134 |
| 7 | Nonlinear Field Equations for Aligning Self-Propelled Rods. Physical Review Letters, 2012, 109, 268701. | 7.8 | 121 |
| 8 | The Physics of the Vicsek model. European Physical Journal: Special Topics, 2016, 225, 2099-2117. | 2.6 | 108 |
| 9 | Mesoscopic theory for fluctuating active nematics. New Journal of Physics, 2013, 15, 085032. | 2.9 | 101 |
| 10 | Local equilibrium in bird flocks. Nature Physics, 2016, 12, 1153-1157. | 16.7 | 80 |
| 11 | Large-Scale Chaos and Fluctuations in Active Nematics. Physical Review Letters, 2014, 113, 038302. | 7.8 | 74 |
| 12 | Hyperbolicity and the Effective Dimension of Spatially Extended Dissipative Systems. Physical Review Letters, 2009, 102, 074102. | 7.8 | 67 |
| 13 | Continuous Theory of Active Matter Systems with Metric-Free Interactions. Physical Review Letters, 2012, 109, 098101. | 7.8 | 65 |
| 14 | Covariant Lyapunov vectors. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 254005. | 2.1 | 65 |
| 15 | Dynamical maximum entropy approach to flocking. Physical Review E, 2014, 89, 042707. | 2.1 | 55 |
| 16 | Comment on â€œPhase Transitions in Systems of Self-Propelled Agents and Related Network Models†Physical Review Letters, 2007, 99, 229601. | 7.8 | 47 |
| 17 | Hyperbolic decoupling of tangent space and effective dimension of dissipative systems. Physical Review E, 2011, 84, 046214. | 2.1 | 38 |
| 18 | Lyapunov Analysis Captures the Collective Dynamics of Large Chaotic Systems. Physical Review Letters, 2009, 103, 154103. | 7.8 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Giant fluctuations and structural effects in a flocking epithelium. Journal Physics D: Applied Physics, 2017, 50, 384003. | 2.8 | 37 |
| 20 | Polar vs. apolar alignment in systems of polar self-propelled particles. Journal of Physics: Conference Series, 2011, 297, 012014. | 0.4 | 34 |
| 21 | Extensive and Subextensive Chaos in Globally Coupled Dynamical Systems. Physical Review Letters, 2011, 107, 124101. | 7.8 | 33 |
| 22 | Quantitative Assessment of the Toner and Tu Theory of Polar Flocks. Physical Review Letters, 2019, 123, 218001. | 7.8 | 31 |
| 23 | Boundary Information Inflow Enhances Correlation in Flocking. Physical Review Letters, 2013, 110, 168107. | 7.8 | 20 |
| 24 | Competing ferromagnetic and nematic alignment in self-propelled polar particles. Physical Review E, 2012, 86, 050101. | 2.1 | 19 |
| 25 | Evidence of a Critical Phase Transition in Purely Temporal Dynamics with Long-Delayed Feedback. Physical Review Letters, 2018, 120, 173901. | 7.8 | 15 |
| 26 | Leading birds by their beaks: the response of flocks to external perturbations. New Journal of Physics, 2016, 18, 073039. | 2.9 | 14 |
| 27 | Synchronization in time-varying random networks with vanishing connectivity. Scientific Reports, 2019, 9, 10207. | 3.3 | 14 |
| 28 | Noise-driven neuromorphic tuned amplifier. Physical Review E, 2017, 96, 062313. | 2.1 | 10 |
| 29 | Lyapunov analysis of multiscale dynamics: the slow bundle of the two-scale Lorenz 96 model. Nonlinear Processes in Geophysics, 2019, 26, 73-89. | 1.3 | 10 |
| 30 | Clustering and anisotropic correlated percolation in polar flocks. Physical Review E, 2019, 100, 022606. | 2.1 | 7 |
| 31 | Desynchronization and pattern formation in a noisy feed-forward oscillator network. Physical Review E, 2019, 99, 012303. | 2.1 | 6 |
| 32 | Intertangled stochastic motifs in networks of excitatory-inhibitory units. Physical Review E, 2017, 96, 022308. | 2.1 | 4 |
| 33 | Origin and scaling of chaos in weakly coupled phase oscillators. Physical Review E, 2018, 97, 012203. | 2.1 | 2 |