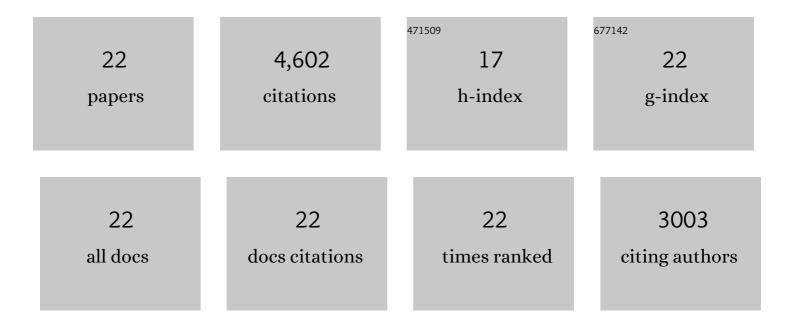
## Massimiliano Viale

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9483281/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Vicsek model by time-interlaced compression: A dynamical computable information density. Physical Review E, 2021, 103, 062141.	2.1	5
2	Dynamic scaling in natural swarms. Nature Physics, 2017, 13, 914-918.	16.7	75
3	Nonsymmetric Interactions Trigger Collective Swings in Globally Ordered Systems. Physical Review Letters, 2017, 118, 138003.	7.8	10
4	Local equilibrium in bird flocks. Nature Physics, 2016, 12, 1153-1157.	16.7	80
5	Spatio-temporal correlations in models of collective motion ruled by different dynamical laws. Physical Biology, 2016, 13, 065001.	1.8	11
6	Short-range interactions versus long-range correlations in bird flocks. Physical Review E, 2015, 92, 012705.	2.1	20
7	Silent Flocks: Constraints on Signal Propagation Across Biological Groups. Physical Review Letters, 2015, 114, 218101.	7.8	37
8	Error control in the set-up of stereo camera systems for 3d animal tracking. European Physical Journal: Special Topics, 2015, 224, 3211-3232.	2.6	9
9	Flocking and Turning: a New Model for Self-organized Collective Motion. Journal of Statistical Physics, 2015, 158, 601-627.	1.2	108
10	GReTA-A Novel Global and Recursive Tracking Algorithm in Three Dimensions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2451-2463.	13.9	32
11	Emergence of collective changes in travel direction of starling flocks from individual birds' fluctuations. Journal of the Royal Society Interface, 2015, 12, 20150319.	3.4	57
12	Social interactions dominate speed control in poising natural flocks near criticality. Proceedings of the United States of America, 2014, 111, 7212-7217.	7.1	145
13	Collective Behaviour without Collective Order in Wild Swarms of Midges. PLoS Computational Biology, 2014, 10, e1003697.	3.2	182
14	Finite-Size Scaling as a Way to Probe Near-Criticality in Natural Swarms. Physical Review Letters, 2014, 113, 238102.	7.8	137
15	Information transfer and behavioural inertia in starling flocks. Nature Physics, 2014, 10, 691-696.	16.7	268
16	Diffusion of individual birds in starling flocks. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122484.	2.6	64
17	Statistical mechanics for natural flocks of birds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4786-4791.	7.1	519
18	Phase Transitions for the Cavity Approach to the Clique Problem on Random Graphs. Journal of Statistical Physics. 2011, 145, 1127-1155.	1.2	8

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#	Article	IF	CITATIONS
19	Scale-free correlations in starling flocks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11865-11870.	7.1	786
20	The STARFLAG handbook on collective animal behaviour: 1. Empirical methods. Animal Behaviour, 2008, 76, 217-236.	1.9	95
21	Empirical investigation of starling flocks: a benchmark study in collective animal behaviour. Animal Behaviour, 2008, 76, 201-215.	1.9	397
22	Interaction ruling animal collective behavior depends on topological rather than metric distance: Evidence from a field study. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1232-1237.	7.1	1,557