

# Massimiliano Viale

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9483281/publications.pdf>

Version: 2024-02-01

22  
papers

4,602  
citations

471509

17  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

3003  
citing authors

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

#	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