

Orit Peleg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28

papers

617

citations

12

h-index

24

g-index

47

ext. papers

752

ext. citations

5.1

avg, IF

4.02

L-index

#	Paper	IF	Citations
28	Statistical analysis reveals the onset of synchrony in sparse swarms of fireflies.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20220007	4.1	2
27	Flow-mediated olfactory communication in honeybee swarms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
26	Self-organization in natural swarms of synchronous fireflies. <i>Science Advances</i> , 2021 , 7,	14.3	9
25	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 25	2.8	2
24	Spatio-temporal reconstruction of emergent flash synchronization in firefly swarms via stereoscopic 360-degree cameras. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200179	4.1	15
23	Collective ventilation in honeybee nests. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180561	4.1	12
22	Mechanical hive mind. <i>Physics Today</i> , 2019 , 72, 66-67	0.9	2
21	The effect of step size on straight-line orientation. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190181	4.1	6
20	Social inhibition maintains adaptivity and consensus of honeybees foraging in dynamic environments. <i>Royal Society Open Science</i> , 2019 , 6, 191681	3.3	5
19	Collective mechanical adaptation of honeybee swarms. <i>Nature Physics</i> , 2018 , 14, 1193-1198	16.2	30
18	Optimal switching between geocentric and egocentric strategies in navigation. <i>Royal Society Open Science</i> , 2016 , 3, 160128	3.3	5
17	Communication: pair interaction ordering in fluids with random interactions. <i>Journal of Chemical Physics</i> , 2015 , 142, 051104	3.9	12
16	Evolution of specificity in protein-protein interactions. <i>Biophysical Journal</i> , 2014 , 107, 1686-96	2.9	17
15	Direct observation of the dynamics of semiflexible polymers in shear flow. <i>Physical Review Letters</i> , 2013 , 110, 108302	7.4	83
14	Effect of charge, hydrophobicity, and sequence of nucleoporins on the translocation of model particles through the nuclear pore complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3363-8	11.5	113
13	Fibers with integrated mechanochemical switches: minimalistic design principles derived from fibronectin. <i>Biophysical Journal</i> , 2012 , 103, 1909-18	2.9	22
12	Morphology control of hairy nanopores. <i>ACS Nano</i> , 2011 , 5, 4737-47	16.7	80

11	Using mesoscopic models to design strong and tough biomimetic polymer networks. <i>Langmuir</i> , 2011 , 27, 13796-805	4	18
10	Converging on the function of intrinsically disordered nucleoporins in the nuclear pore complex. <i>Biological Chemistry</i> , 2010 , 391, 719-30	4.5	35
9	From Dendrimers to Dendronized Polymers and Forests: Scaling Theory and its Limitations. <i>Macromolecules</i> , 2010 , 43, 6213-6224	5.5	76
8	Modelling and confocal microscopy of biopolymer mixtures in confined geometries. <i>Soft Matter</i> , 2010 , 6, 2713	3.6	10
7	Effect of network topology on phase separation in two-dimensional Lennard-Jones networks. <i>Physical Review E</i> , 2009 , 79, 040401	2.4	6
6	Model of Microphase Separation in Two-Dimensional Gels. <i>Macromolecules</i> , 2008 , 41, 3267-3275	5.5	3
5	Formation of double helical and filamentous structures in models of physical and chemical gels. <i>Soft Matter</i> , 2007 , 4, 18-28	3.6	26
4	Filamentous networks in phase-separating two-dimensional gels. <i>Europhysics Letters</i> , 2007 , 77, 58007	1.6	17
3	Statistical analysis reveals the onset of synchrony in sparse swarms of <i>Photinus knulli</i> fireflies		1
2	Robustness of collective scenting in the presence of physical obstacles. <i>Artificial Life and Robotics</i> , 1	0.6	
1	Spatiotemporal reconstruction of emergent flash synchronization in firefly swarms via stereoscopic 360-degree cameras		1