Orit Peleg

List of Publications by Year
in descending order

28 papers	865 citations	567281 15 h-index	501196 28 g-index
47 all docs	47 docs citations	47 times ranked	993 citing authors

#	Article	IF	Citations
1	Robustness of collective scenting in the presence of physical obstacles. Artificial Life and Robotics, 2022, 27, 286-291.	1.2	1
2	Thermoregulatory morphodynamics of honeybee swarm clusters. Journal of Experimental Biology, 2022, 225, .	1.7	7
3	Statistical analysis reveals the onset of synchrony in sparse swarms of Photinus knulli fireflies. Journal of the Royal Society Interface, 2022, 19, 20220007.	3.4	9
4	Flow-mediated olfactory communication in honeybee swarms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
5	Self-organization in natural swarms of Photinus carolinus synchronous fireflies. Science Advances, 2021, 7, .	10.3	40
6	Emergent Collective Locomotion in an Active Polymer Model of Entangled Worm Blobs. Frontiers in Physics, 2021, 9, .	2.1	13
7	Spatio-temporal reconstruction of emergent flash synchronization in firefly swarms via stereoscopic 360-degree cameras. Journal of the Royal Society Interface, 2020, 17, 20200179.	3.4	33
8	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building. Frontiers in Robotics and AI, 2020, 7, 25.	3.2	5
9	The effect of step size on straight-line orientation. Journal of the Royal Society Interface, 2019, 16, 20190181.	3.4	13
10	Collective ventilation in honeybee nests. Journal of the Royal Society Interface, 2019, 16, 20180561.	3.4	25
11	Mechanical hive mind. Physics Today, 2019, 72, 66-67.	0.3	3
12	Social inhibition maintains adaptivity and consensus of honeybees foraging in dynamic environments. Royal Society Open Science, 2019, 6, 191681.	2.4	7
13	Collective mechanical adaptation of honeybee swarms. Nature Physics, 2018, 14, 1193-1198.	16.7	62
14	Optimal switching between geocentric and egocentric strategies in navigation. Royal Society Open Science, 2016, 3, 160128.	2.4	8
15	Communication: Pair interaction ordering in fluids with random interactions. Journal of Chemical Physics, 2015, 142, 051104.	3.0	16
16	Evolution of Specificity in Protein-Protein Interactions. Biophysical Journal, 2014, 107, 1686-1696.	0.5	29
17	Direct Observation of the Dynamics of Semiflexible Polymers in Shear Flow. Physical Review Letters, 2013, 110, 108302.	7.8	102
18	Effect of charge, hydrophobicity, and sequence of nucleoporins on the translocation of model particles through the nuclear pore complex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3363-3368.	7.1	139

#	Article	IF	Citations
19	Fibers with Integrated Mechanochemical Switches: Minimalistic Design Principles Derived from Fibronectin. Biophysical Journal, 2012, 103, 1909-1918.	0.5	27
20	Using Mesoscopic Models to Design Strong and Tough Biomimetic Polymer Networks. Langmuir, 2011, 27, 13796-13805.	3.5	20
21	Morphology Control of Hairy Nanopores. ACS Nano, 2011, 5, 4737-4747.	14.6	89
22	Converging on the function of intrinsically disordered nucleoporins in the nuclear pore complex. Biological Chemistry, 2010, 391, 719-30.	2.5	43
23	From Dendrimers to Dendronized Polymers and Forests: Scaling Theory and its Limitations. Macromolecules, 2010, 43, 6213-6224.	4.8	80
24	Modelling and confocal microscopy of biopolymer mixtures in confined geometries. Soft Matter, 2010, 6, 2713.	2.7	12
25	Effect of network topology on phase separation in two-dimensional Lennard-Jones networks. Physical Review E, 2009, 79, 040401.	2.1	6
26	Formation of double helical and filamentous structures in models of physical and chemical gels. Soft Matter, 2008, 4, 18-28.	2.7	26
27	Model of Microphase Separation in Two-Dimensional Gels. Macromolecules, 2008, 41, 3267-3275.	4.8	3
28	Filamentous networks in phase-separating two-dimensional gels. Europhysics Letters, 2007, 77, 58007.	2.0	17