Orit Peleg

List of Publications by Year
in descending order

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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	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
2	Direct Observation of the Dynamics of Semiflexible Polymers in Shear Flow. Physical Review Letters, 2013, 110, 108302.	7.8	102
3	Morphology Control of Hairy Nanopores. ACS Nano, 2011, 5, 4737-4747.	14.6	89
4	From Dendrimers to Dendronized Polymers and Forests: Scaling Theory and its Limitations. Macromolecules, 2010, 43, 6213-6224.	4.8	80
5	Collective mechanical adaptation of honeybee swarms. Nature Physics, 2018, 14, 1193-1198.	16.7	62
6	Converging on the function of intrinsically disordered nucleoporins in the nuclear pore complex. Biological Chemistry, 2010, 391, 719-30.	2.5	43
7	Self-organization in natural swarms of Photinus carolinus synchronous fireflies. Science Advances, 2021, 7, .	10.3	40
8	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
9	Evolution of Specificity in Protein-Protein Interactions. Biophysical Journal, 2014, 107, 1686-1696.	0.5	29
10	Fibers with Integrated Mechanochemical Switches: Minimalistic Design Principles Derived from Fibronectin. Biophysical Journal, 2012, 103, 1909-1918.	0.5	27
11	Formation of double helical and filamentous structures in models of physical and chemical gels. Soft Matter, 2008, 4, 18-28.	2.7	26
12	Collective ventilation in honeybee nests. Journal of the Royal Society Interface, 2019, 16, 20180561.	3.4	25
13	Using Mesoscopic Models to Design Strong and Tough Biomimetic Polymer Networks. Langmuir, 2011, 27, 13796-13805.	3.5	20
14	Filamentous networks in phase-separating two-dimensional gels. Europhysics Letters, 2007, 77, 58007.	2.0	17
15	Communication: Pair interaction ordering in fluids with random interactions. Journal of Chemical Physics, 2015, 142, 051104.	3.0	16
16	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
17	The effect of step size on straight-line orientation. Journal of the Royal Society Interface, 2019, 16, 20190181.	3.4	13
18	Emergent Collective Locomotion in an Active Polymer Model of Entangled Worm Blobs. Frontiers in Physics, 2021, 9, .	2.1	13

#	Article	IF	Citations
19	Modelling and confocal microscopy of biopolymer mixtures in confined geometries. Soft Matter, 2010, 6, 2713.	2.7	12
20	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
21	Optimal switching between geocentric and egocentric strategies in navigation. Royal Society Open Science, 2016, 3, 160128.	2.4	8
22	Social inhibition maintains adaptivity and consensus of honeybees foraging in dynamic environments. Royal Society Open Science, 2019, 6, 191681.	2.4	7
23	Thermoregulatory morphodynamics of honeybee swarm clusters. Journal of Experimental Biology, 2022, 225, .	1.7	7
24	Effect of network topology on phase separation in two-dimensional Lennard-Jones networks. Physical Review E, 2009, 79, 040401.	2.1	6
25	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building. Frontiers in Robotics and AI, 2020, 7, 25.	3.2	5
26	Model of Microphase Separation in Two-Dimensional Gels. Macromolecules, 2008, 41, 3267-3275.	4.8	3
27	Mechanical hive mind. Physics Today, 2019, 72, 66-67.	0.3	3
28	Robustness of collective scenting in the presence of physical obstacles. Artificial Life and Robotics, 2022, 27, 286-291.	1.2	1