Orit Peleg

List of Publications by Citations

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	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, 3363-8	11.5	113
27	Direct observation of the dynamics of semiflexible polymers in shear flow. *Physical Review Letters*, **2013**, 110, 108302	7.4	83
26	Morphology control of hairy nanopores. *ACS Nano*, **2011**, 5, 4737-47	16.7	80
25	From Dendrimers to Dendronized Polymers and Forests: Scaling Theory and its Limitations. *Macromolecules*, **2010**, 43, 6213-6224	5.5	76
24	Converging on the function of intrinsically disordered nucleoporins in the nuclear pore complex. *Biological Chemistry*, **2010**, 391, 719-30	4.5	35
23	Collective mechanical adaptation of honeybee swarms. *Nature Physics*, **2018**, 14, 1193-1198	16.2	30
22	Formation of double helical and filamentous structures in models of physical and chemical gels. *Soft Matter*, **2007**, 4, 18-28	3.6	26
21	Fibers with integrated mechanochemical switches: minimalistic design principles derived from fibronectin. *Biophysical Journal*, **2012**, 103, 1909-18	2.9	22
20	Using mesoscopic models to design strong and tough biomimetic polymer networks. *Langmuir*, **2011**, 27, 13796-805	4	18
19	Evolution of specificity in protein-protein interactions. *Biophysical Journal*, **2014**, 107, 1686-96	2.9	17
18	Filamentous networks in phase-separating two-dimensional gels. *Europhysics Letters*, **2007**, 77, 58007	1.6	17
17	Spatio-temporal reconstruction of emergent flash synchronization in firefly swarms via stereoscopic 360-degree cameras. *Journal of the Royal Society Interface*, **2020**, 17, 20200179	4.1	15
16	Collective ventilation in honeybee nests. *Journal of the Royal Society Interface*, **2019**, 16, 20180561	4.1	12
15	Communication: pair interaction ordering in fluids with random interactions. *Journal of Chemical Physics*, **2015**, 142, 051104	3.9	12
14	Modelling and confocal microscopy of biopolymer mixtures in confined geometries. *Soft Matter*, **2010**, 6, 2713	3.6	10
13	Self-organization in natural swarms of synchronous fireflies. *Science Advances*, **2021**, 7,	14.3	9
12	The effect of step size on straight-line orientation. *Journal of the Royal Society Interface*, **2019**, 16, 20190181	4.1	6

List of Publications

11	Effect of network topology on phase separation in two-dimensional Lennard-Jones networks. *Physical Review E*, **2009**, 79, 040401	2.4	6
10	Flow-mediated olfactory communication in honeybee swarms. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
9	Optimal switching between geocentric and egocentric strategies in navigation. *Royal Society Open Science*, **2016**, 3, 160128	3.3	5
8	Social inhibition maintains adaptivity and consensus of honeybees foraging in dynamic environments. *Royal Society Open Science*, **2019**, 6, 191681	3.3	5
7	Model of Microphase Separation in Two-Dimensional Gels. *Macromolecules*, **2008**, 41, 3267-3275	5.5	3
6	Mechanical hive mind. *Physics Today*, **2019**, 72, 66-67	0.9	2
5	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building. *Frontiers in Robotics and AI*, **2020**, 7, 25	2.8	2
4	Statistical analysis reveals the onset of synchrony in sparse swarms of fireflies.. *Journal of the Royal Society Interface*, **2022**, 19, 20220007	4.1	2
3	Statistical analysis reveals the onset of synchrony in sparse swarms of Photinus knulli fireflies		1
2	Spatiotemporal reconstruction of emergent flash synchronization in firefly swarms via stereoscopic 360-degree cameras		1
1	Robustness of collective scenting in the presence of physical obstacles. *Artificial Life and Robotics*,1	0.6	