Vladimir V Palyulin

List of Publications by Year
in descending order

19 papers	518 citations	759233 12 h-index	839539 18 g-index
19 all docs	19 docs citations	19 times ranked	526 citing authors

#	Article	IF	Citations
1	Lévy flights do not always optimize random blind search for sparse targets. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2931-2936.	7.1	167
2	First passage and first hitting times of Lévy flights and Lévy walks. New Journal of Physics, 2019, 21, 103028.	2.9	54
3	Mixed versus Ordinary Micelles in the Dilute Solution of AB and BC Diblock Copolymers. Macromolecules, 2008, 41, 4459-4463.	4.8	46
4	Parameter-free predictions of the viscoelastic response of glassy polymers from non-affine lattice dynamics. Soft Matter, 2018, 14, 8475-8482.	2.7	45
5	Search reliability and search efficiency of combined Lévy–Brownian motion: long relocations mingled with thorough local exploration. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 394002.	2.1	30
6	Interpretation of the Vibrational Spectra of Glassy Polymers Using Coarse-Grained Simulations. Macromolecules, 2018, 51, 1559-1572.	4.8	25
7	Space-fractional Fokker–Planck equation and optimization of random search processes in the presence of an external bias. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P11031.	2.3	23
8	Comparison of pure and combined search strategies for single and multiple targets. European Physical Journal B, 2017, 90, 1.	1.5	23
9	Microphase separation of double-grafted copolymers (centipedes) with gradient, random, and regular sequence of the branch points. Journal of Chemical Physics, 2007, 127, 124903.	3.0	19
10	Nonmonotonic dependence of polymer-glass mechanical response on chain bending stiffness. Physical Review E, 2017, 96, 030501.	2.1	16
11	Damping of Cu-Associated Photoluminescence and Formation of Induced Absorption in Heavily Cu-Doped CdSe Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 27986-27992.	3.1	16
12	How a finite potential barrier decreases the mean first-passage time. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, L03001.	2.3	16
13	Non-Markovian diffusion of excitons in layered perovskites and transition metal dichalcogenides. Physical Chemistry Chemical Physics, 2022, 24, 13941-13950.	2.8	12
14	Surface induced self-organization of comb-like macromolecules. Beilstein Journal of Nanotechnology, 2011, 2, 569-584.	2.8	8
15	Scaling up the lattice dynamics of amorphous materials by orders of magnitude. Physical Review B, 2020, 102, .	3.2	8
16	The efficiency of driving chemical reactions by a physical non-equilibrium is kinetically controlled. Physical Chemistry Chemical Physics, 2016, 18, 20135-20143.	2.8	5
17	Speeding up the first-passage for subdiffusion by introducing a finite potential barrier. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 032002.	2.1	4
18	A Study of First-Passage Time Minimization via Q-Learning in Heated Gridworlds. IEEE Access, 2021, 9, 159349-159363.	4.2	1

#	Article	IF	Citations
19	Free energies of polymer brushes with mobile anchors in a good solvent calculated with the expanded ensemble method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129443.	4.7	0