Alexander V Popov

List of Publications by Year
in descending order

38	573	567281 15	642732 23
papers	citations	h-index	g-index

39	39	39	407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electric Potential of Citrate-Capped Gold Nanoparticles Is Affected by Poly(allylamine hydrochloride) and Salt Concentration. ACS Applied Materials & Interfaces, 2022, 14, 12538-12550.	8.0	8
2	Solvation Dynamics in the Cybotactic Region of Gas-Expanded Liquids: A Decade Later. Industrial & Engineering Chemistry Research, 2020, 59, 1646-1655.	3.7	0
3	Kinetics of intra- and intermolecular excited-state proton transfer ofÏ‰-(2-hydroxynaphthyl-1)-decanoic acid in homogeneous and micellar solutions. Methods and Applications in Fluorescence, 2016, 4, 014001.	2.3	2
4	Nonequilibrium structure in sequential assembly. Physical Review E, 2015, 92, 052108.	2.1	2
5	Stochastic dynamics of penetrable rods in one dimension: Entangled dynamics and transport properties. Journal of Chemical Physics, 2015, 142, 154906.	3.0	5
6	Molecular dynamics out of equilibrium: mechanics and measurables. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 541-561.	14.6	11
7	Structure of a tractable stochastic mimic of soft particles. Soft Matter, 2014, 10, 5350-5361.	2.7	11
8	Effective Surface Coverage of Coarse-Grained Soft Matter. Journal of Physical Chemistry B, 2014, 118, 14092-14102.	2.6	5
9	Stochastic dynamics of penetrable rods in one dimension: Occupied volume and spatial order. Journal of Chemical Physics, 2013, 138, 244901.	3.0	9
10	Temperature-driven irreversible generalized Langevin equation can capture the nonequilibrium dynamics of two dissipated coupled oscillators. Physical Review E, 2013, 88, 032145.	2.1	5
11	Excited-state proton transfer in N-methyl-6-hydroxyquinolinium salts: solvent and temperature effects. Physical Chemistry Chemical Physics, 2012, 14, 8964.	2.8	42
12	Diffusional effects on the reversible excited-state proton transfer. From experiments to Brownian dynamics simulations. Physical Chemistry Chemical Physics, 2011, 13, 14914.	2.8	34
13	Nonequilibrium heat flows through a nanorod sliding across a surface. Journal of Chemical Physics, 2011, 134, 104703.	3.0	5
14	Diffusion in a nonequilibrium binary mixture of hard spheres swelling at different rates. Journal of Chemical Physics, 2009, 131, 024503.	3.0	3
15	Molecular Dynamics Simulations of Solvation and Solvent Reorganization Dynamics in CO₂-Expanded Methanol and Acetone. Journal of Chemical Theory and Computation, 2009, 5, 267-275.	5.3	9
16	Effects of Solute Structure on Local Solvation and Solvent Interactions: Results from UV/Vis Spectroscopy and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2008, 112, 14993-14998.	2.6	10
17	A Spectroscopic and Computational Exploration of the Cybotactic Region of Gas-Expanded Liquids:â€‰ Methanol and Acetone. Journal of Physical Chemistry B, 2008, 112, 4666-4673.	2.6	23
18	Stochastic Models for Polymerization Reactions Under Nonequilibrium Conditions. Annual Reports in Computational Chemistry, 2008, 4, 173-199.	1.7	1

#	Article	IF	Citations
19	Ontology of temperature in nonequilibrium systems. Journal of Chemical Physics, 2007, 126, 244506.	3.0	33
20	Molecular Dynamics Simulation of the Cybotactic Region in Gas-Expanded Methanolâ^'Carbon Dioxide and Acetoneâ^'Carbon Dioxide Mixtures. Journal of Physical Chemistry B, 2006, 110, 24101-24111.	2.6	36
21	Dynamics of Swelling/Contracting Hard Spheres Surmised by an Irreversible Langevin Equationâ€. Journal of Physical Chemistry A, 2006, 110, 1635-1644.	2.5	19
22	Diffusion-influenced excited-state reversible transfer reactions, A*+Bâ‡ŒC*+D, with two different lifetimes: Theories and simulations. Journal of Chemical Physics, 2005, 123, 034507.	3.0	15
23	Influence of diffusion on the kinetics of excited-state associationâ€“dissociation reactions: Comparison of theory and simulation. Journal of Chemical Physics, 2004, 120, 6111-6116.	3.0	26
24	Transition into non-monotonic approach to equilibrium in geminate exchange reaction. Chemical Physics Letters, 2003, 371, 462-468.	2.6	4
25	Accurate solution for the many body ABCD problem. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 150-159.	2.6	3
26	Sternâ^'Volmer Law in Competing Theories and Approximationsâ€. Journal of Physical Chemistry A, 2003, 107, 8177-8183.	2.5	12
27	Theories of Reversible Dissociation:â€‰ A Comparative Study. Journal of Physical Chemistry A, 2003, 107, 9688-9694.	2.5	9
28	Three-dimensional simulations of reversible bimolecular reactions. III. The pseudo-unimolecular ABCD reaction. Journal of Chemical Physics, 2003, 118, 11057-11065.	3.0	14
29	Unified theory of reversible target reactions. Journal of Chemical Physics, 2003, 119, 6680-6690.	3.0	23
30	Three-dimensional simulations of reversible bimolecular reactions. II. The excited-state target problem with different lifetimes. Journal of Chemical Physics, 2002, 117, 4376-4385.	3.0	21
31	Exact solution for the geminate ABCD reaction. Journal of Chemical Physics, 2002, 117, 5770-5779.	3.0	26
32	The CIDNP kinetics in recombination of successive radical pairs. Applied Magnetic Resonance, 2002, 23, 149-170.	1.2	1
33	Spin dynamics in strongly coupled spin-correlated radical pairs: Stochastic modulation of the exchange interaction and STâ^'1 mixing in different magnetic fields. Applied Magnetic Resonance, 2001, 20, 111-135.	1.2	6
34	Three-dimensional simulation verifies theoretical asymptotics for reversible binding. Chemical Physics Letters, 2001, 340, 151-156.	2.6	20
35	Three-dimensional simulations of reversible bimolecular reactions: The simple target problem. Journal of Chemical Physics, 2001, 115, 8921-8932.	3.0	59
36	Calculation of CIDNP field dependences in biradicals in the photolysis of large-ring cycloalkanones. Chemical Physics, 2000, 252, 83-95.	1.9	10

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37	Multifrequency time-resolved EPR (9.5GHz and 95GHz) on covalently linked porphyrin-quinone model systems for photosynthetic electron transfer: effect of molecular dynamics on electron spin polarization. Molecular Physics, 2000, 98, 1025-1040.	1.7	26
38	The green function method in the theory of nuclear and electron spin polarization. II. The first approximation and its application in the CIDEP theory. Chemical Physics, 1994, 182, 149-166.	1.9	19