

Yuri Djikaev

List of Publications by Year in descending order

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56
papers

1,032
citations

566801

15
h-index

454577

30
g-index

57
all docs

57
docs citations

57
times ranked

923
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Fokker-Planck approximation in the kinetic equation of multicomponent classical nucleation theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 585, 126375.	1.2	1
2	Effect of chemical aging of aqueous organic aerosols on the rate of their steady-state nucleation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17612-17619.	1.3	4
3	Kinetic equation of concurrent nucleation and chemical aging of an ensemble of aqueous organic aerosols. <i>Physical Review E</i> , 2020, 101, 062801.	0.8	3
4	Formation and evolution of aqueous organic aerosols via concurrent condensation and chemical aging. <i>Advances in Colloid and Interface Science</i> , 2019, 265, 45-67.	7.0	9
5	Depletion of atmospheric organic trace gases due to their uptake by an ensemble of aqueous aerosols evolving via concurrent condensation and chemical aging. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13090-13098.	1.3	4
6	Effect of Heterogeneous Chemical Reactions on the Köhler Activation of Aqueous Organic Aerosols. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4322-4337.	1.1	8
7	Does the Enthalpy of Heterogeneous Chemical Reactions Affect the Formation of Aqueous Secondary Organic Aerosols?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5311-5316.	2.1	6
8	Free energy of formation of a crystal nucleus in incongruent solidification: Implication for modeling the crystallization of aqueous nitric acid droplets in polar stratospheric clouds. <i>Journal of Chemical Physics</i> , 2017, 146, 134709.	1.2	5
9	Dependence of homogeneous crystal nucleation in water droplets on their radii and its implication for modeling the formation of ice particles in cirrus clouds. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20075-20081.	1.3	6
10	Self-Consistent Determination of the Ice-Air Interfacial Tension and Ice-Water-Air Line Tension from Experiments on the Freezing of Water Droplets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16432-16439.	1.5	9
11	Determination of the Solid-Vapor Interfacial Tension of Nitric Acid Dihydrate Crystals via Experiments on the Freezing of Aqueous Nitric Acid Droplets. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28031-28037.	1.5	2
12	Recent developments in the theoretical, simulational, and experimental studies of the role of water hydrogen bonding in hydrophobic phenomena. <i>Advances in Colloid and Interface Science</i> , 2016, 235, 23-45.	7.0	11
13	Fluid transition layer between rigid solute and liquid solvent: is there depletion or enrichment?. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7888-7902.	1.3	1
14	Effect of Water Hydrogen Bonding on the Solvent-Mediated α -Oscillatory Repulsion of C_{60} Fullerenes in Water. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1761-1766.	2.1	7
15	Temperature dependence of the evaporation lengthscale for water confined between two hydrophobic plates. <i>Journal of Colloid and Interface Science</i> , 2015, 449, 226-235.	5.0	3
16	The solvent-induced interaction of spherical solutes in associated and non-associated liquids. <i>Journal of Chemical Physics</i> , 2014, 141, 034705.	1.2	4
17	Thermodynamics of Water Condensation on a Primary Marine Aerosol Coated by Surfactant Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9879-9889.	1.1	12
18	Probabilistic Approach to the Length-Scale Dependence of the Effect of Water Hydrogen Bonding on Hydrophobic Hydration. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7015-7025.	1.2	13

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19	Temperature effect on the small-to-large crossover lengthscale of hydrophobic hydration. <i>Journal of Chemical Physics</i> , 2013, 139, 184709.	1.2	7
20	Effect of Water's Water Hydrogen Bonding on the Hydrophobic Hydration of Large-Scale Particles and Its Temperature Dependence. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2820-2830.	1.2	15
21	Effect of Hydrogen Bonding between Water Molecules on Their Density Distribution near a Hydrophobic Surface. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1382-1386.	2.1	18
22	A probabilistic approach to the effect of water hydrogen bonds on the kinetics of protein folding and protein denaturation. <i>Advances in Colloid and Interface Science</i> , 2010, 154, 77-90.	7.0	2
23	Temperature effects on the hydrophobic interaction of parallel plates in the framework of the probabilistic approach to hydrogen bonding. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 510-521.	5.0	5
24	Dependence of the number of hydrogen bonds per water molecule on its distance to a hydrophobic surface and a thereupon-based model for hydrophobic attraction. <i>Journal of Chemical Physics</i> , 2010, 133, 194105.	1.2	13
25	Effect of hydrogen bond networks on the nucleation mechanism of protein folding. <i>Physical Review E</i> , 2009, 80, 061918.	0.8	9
26	A probabilistic approach to the effect of hydrogen bonding on the hydrophobic attraction. <i>Journal of Chemical Physics</i> , 2009, 130, 124713.	1.2	23
27	The role of hydrogen bond networks in the barrierless thermal denaturation of a native protein. <i>Journal of Chemical Physics</i> , 2009, 131, 045105.	1.2	8
28	First passage time analysis of protein folding via nucleation and of barrierless protein denaturation. <i>Advances in Colloid and Interface Science</i> , 2009, 146, 18-30.	7.0	9
29	The effect of hydrogen bonding on the solvent-mediated interaction of composite plates. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 575-583.	5.0	6
30	A kinetic model for the premelting of a crystalline structure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 134-144.	1.2	7
31	Thermodynamics of Heterogeneous Crystal Nucleation in Contact and Immersion Modes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11677-11687.	1.1	42
32	Temperature effects on the nucleation mechanism of protein folding and on the barrierless thermal denaturation of a native protein. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6281.	1.3	13
33	Effect of the Surface-Stimulated Mode on the Kinetics of Homogeneous Crystal Nucleation in Droplets. <i>Journal of Physical Chemistry A</i> , 2008, 112, 6592-6600.	1.1	18
34	Kinetic Model for the Sublimation of a Solid and Evaporation of Colloidal Particles from a Solid Substrate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1621-1627.	1.5	2
35	Effect of ionized protein residues on the nucleation pathway of protein folding. <i>Journal of Chemical Physics</i> , 2008, 128, 025103.	1.2	12
36	The interfacial tension and phase diagram of the Widom-Rowlinson mixture via Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 014712.	1.2	4

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37	Thermal denaturation of a native protein via spinodal decomposition in the framework of first-passage-time analysis. <i>Physical Review E</i> , 2008, 78, 011909.	0.8	13
38	A ternary nucleation model for the nucleation pathway of protein folding. <i>Journal of Chemical Physics</i> , 2007, 126, 175103.	1.2	14
39	Model for the Nucleation Mechanism of Protein Folding. <i>Journal of Physical Chemistry B</i> , 2007, 111, 886-897.	1.2	17
40	New approach to the kinetics of heterogeneous unary nucleation on liquid aerosols of a binary solution. <i>Journal of Chemical Physics</i> , 2006, 125, 244707.	1.2	9
41	A kinetic approach to the theory of heterogeneous nucleation on soluble particles during the deliquescence stage. <i>Journal of Chemical Physics</i> , 2006, 124, 194709.	1.2	12
42	Kinetic theory of binary nucleation based on a first passage time analysis. <i>Journal of Chemical Physics</i> , 2006, 124, 124521.	1.2	15
43	Recent developments in the kinetic theory of nucleation. <i>Advances in Colloid and Interface Science</i> , 2005, 118, 51-72.	7.0	63
44	Kinetic theory of nucleation based on a first passage time analysis: Improvement by the density-functional theory. <i>Journal of Chemical Physics</i> , 2005, 123, 214503.	1.2	15
45	Effect of adsorption on the uptake of organic trace gas by cloud droplets. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	29
46	Thermodynamics of crystal nucleation in multicomponent droplets: Adsorption, dissociation, and surface-stimulated nucleation. <i>Journal of Chemical Physics</i> , 2003, 118, 6572-6581.	1.2	40
47	Kinetics of fluctuational deliquescence. <i>Journal of Chemical Physics</i> , 2002, 116, 9865-9874.	1.2	21
48	Surface crystallization of supercooled water in clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15873-15878.	3.3	204
49	Laboratory Evidence for Surface Nucleation of Solid Polar Stratospheric Cloud Particles. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10238-10246.	1.1	82
50	Thermodynamic Conditions for the Surface-Stimulated Crystallization of Atmospheric Droplets. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10247-10253.	1.1	84
51	Activation barrier for multicomponent droplet formation on partially soluble nuclei. <i>Journal of Geophysical Research</i> , 2001, 106, 14447-14463.	3.3	10
52	Theory of Size Dependent Deliquescence of Nanoparticles: Relation to Heterogeneous Nucleation and Comparison with Experiments. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7708-7722.	1.2	50
53	Activation barrier for heterogeneous condensation in multicomponent vapor mixtures: Cases of insoluble and mixed nuclei. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
54	Microscopic effects and kinetics of binary nucleation beyond the confines of the Fokker-Planck approximation. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0

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55	Thermodynamics of heterogeneous multicomponent condensation on mixed nuclei. Journal of Chemical Physics, 2000, 113, 6822-6830.	1.2	15
56	Thermodynamics of heterogeneous binary condensation on insoluble nuclei. Journal of Geophysical Research, 1999, 104, 14283-14292.	3.3	18