

Dmitry V Tatyanyenko

List of Publications by Year in descending order

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78
citing authors

#	ARTICLE	IF	CITATIONS
1	The line tension and the generalized Young equation: the choice of dividing surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 263-268.	2.3	54
2	Grand potential in thermodynamics of solid bodies and surfaces. <i>Journal of Chemical Physics</i> , 2009, 131, 161104.	1.2	26
3	Dependence of the condensate chemical potential on droplet size in thermodynamics of heterogeneous nucleation within the gradient DFT. <i>Fluid Phase Equilibria</i> , 2016, 424, 162-172.	1.4	14
4	Key thermodynamic characteristics of nucleation on charged and neutral cores of molecular sizes in terms of the gradient density functional theory. <i>Colloid Journal</i> , 2016, 78, 553-565.	0.5	13
5	Vapor nucleation on a wettable nanoparticle carrying a non-central discrete electric charge. <i>Journal of Chemical Physics</i> , 2013, 138, 194708.	1.2	9
6	New approach to defining thermodynamic surface tension of solids. <i>Colloid Journal</i> , 2010, 72, 673-678.	0.5	8
7	Thermodynamic Analysis of Adsorption and Line-Tension Contributions to Contact Angles of Small Sessile Droplets. <i>Colloid Journal</i> , 2019, 81, 455-468.	0.5	7
8	Thermodynamics of a liquid wetting film on a spherical particle with an adsorbed ion. <i>Colloid Journal</i> , 2013, 75, 504-513.	0.5	6
9	A Unified Approach to Disjoining Pressure in Liquid and Vapor Interlayer within the Framework of the Density Functional Theory. <i>Colloid Journal</i> , 2021, 83, 263-269.	0.5	6
10	Disjoining pressure in vapor layers near planar and spherical lyophobic surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126277.	2.3	6
11	Three stages of water microdroplet evaporation on hydrophobized surface: Comparison between steady-state theory and experiment. <i>Colloid Journal</i> , 2017, 79, 353-359.	0.5	5
12	COMPARABLE EFFECTS OF ADSORPTION AND LINE TENSION ON CONTACT ANGLE OF A NUCLEATED DROPLET ON A PARTIALLY WETTABLE SUBSTRATE. <i>Interfacial Phenomena and Heat Transfer</i> , 2017, 5, 113-128.	0.3	5
13	Comment on "Size dependence of bubble wetting on surfaces: breakdown of contact angle match between small sized bubbles and droplets" by H. Zhang and X. Zhang, <i>Nanoscale</i> , 2019, 11, 2823. <i>Nanoscale</i> , 2021, 13, 4308-4310.	2.8	4
14	Dynamics of scattering on a classical two-dimensional artificial atom. <i>Physical Review E</i> , 2007, 75, 036606.	0.8	1
15	On the Choice of the Equation of State for a System of Hard Spheres in Calculations of Density Profiles and Surface Tension of Droplets and Bubbles. <i>Russian Journal of General Chemistry</i> , 2022, 92, 629-640.	0.3	1