

Dmitri Schebarchov

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

617
citations

17
h-index

24
g-index

34
ext. papers

675
ext. citations

5.7
avg, IF

4.25
L-index

#	Paper	IF	Citations
33	Multiple scattering of light in nanoparticle assemblies: User guide for the terms program. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 284, 108131	2.1	1
32	Core-shell Bimetallic Nanoparticle Trimers for Efficient Light-to-Chemical Energy Conversion. <i>ACS Energy Letters</i> , 2020 , 5, 3881-3890	20.1	18
31	Approximate T matrix and optical properties of spheroidal particles to third order with respect to size parameter. <i>Physical Review A</i> , 2019 , 99,	2.6	12
30	In Situ Visualization of Site-Dependent Reaction Kinetics in Shape-Controlled Nanoparticles: Corners vs Edges. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14746-14753	3.8	3
29	Structure, thermodynamics, and rearrangement mechanisms in gold clusters-insights from the energy landscapes framework. <i>Nanoscale</i> , 2018 , 10, 2004-2016	7.7	25
28	Structure and Thermodynamics of Metal Clusters on Atomically Smooth Substrates. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5402-5407	6.4	7
27	Grand and Semigrand Canonical Basin-Hopping. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 902-9	6.4	21
26	Impurity effects on solid-solid transitions in atomic clusters. <i>Nanoscale</i> , 2016 , 8, 18326-18340	7.7	13
25	Quasi-combinatorial energy landscapes for nanoalloy structure optimisation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28331-8	3.6	20
24	Structure prediction for multicomponent materials using biminima. <i>Physical Review Letters</i> , 2014 , 113, 156102	7.4	20
23	Degenerate Ising model for atomistic simulation of crystal-melt interfaces. <i>Journal of Chemical Physics</i> , 2014 , 140, 074704	3.9	5
22	Filling a nanoporous substrate by dewetting of thin films. <i>Nanoscale</i> , 2013 , 5, 1949-54	7.7	12
21	Simple accurate approximations for the optical properties of metallic nanospheres and nanoshells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4233-42	3.6	34
20	Communication: a new paradigm for structure prediction in multicomponent systems. <i>Journal of Chemical Physics</i> , 2013 , 139, 221101	3.9	28
19	Electronic shell structure in Ga ₁₂ icosahedra and the relation to the bulk forms of gallium. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9912-22	3.6	20
18	Electronic effects on the melting of small gallium clusters. <i>Journal of Chemical Physics</i> , 2012 , 137, 144307	3.9	29
17	Reverse capillary action in carbon nanotubes: sucking metal nanoparticles out of nanotubes. <i>Small</i> , 2011 , 7, 737-40	11	8

16	Healing and sealing carbon nanotubes--growth and closure within a transmission electron microscope. <i>Nanoscale</i> , 2011 , 3, 1493-6	7.7	1
15	Throwing jellium at gallium--a systematic superatom analysis of metalloid gallium clusters. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 21109-15	3.6	28
14	Uptake and withdrawal of droplets from carbon nanotubes. <i>Nanoscale</i> , 2011 , 3, 134-41	7.7	26
13	Effects of epitaxial strain on the melting of supported nickel nanoparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	9
12	Comment on "Dynamic catalyst restructuring during carbon nanotube growth". <i>ACS Nano</i> , 2011 , 5, 685; author reply 686-7	16.7	
11	Interplay of wetting and elasticity in the nucleation of carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 185503	7.4	16
10	Molecular dynamics simulations of nanoparticles. <i>International Journal of Nanotechnology</i> , 2009 , 6, 274	1.5	1
9	Molecular dynamics study of the melting of a supported 887-atom Pd decahedron. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 144204	1.8	9
8	Superheating in metal nanoparticles with non-melting surfaces. <i>European Physical Journal D</i> , 2009 , 53, 63-68	1.3	5
7	Capillary absorption of metal nanodroplets by single-wall carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 2253-7	1.5	61
6	Dynamics of capillary absorption of droplets by carbon nanotubes. <i>Physical Review E</i> , 2008 , 78, 046309	2.4	32
5	Thermal instability of decahedral structures in platinum nanoparticles. <i>European Physical Journal D</i> , 2007 , 43, 11-14	1.3	10
4	Solid-liquid phase coexistence and structural transitions in palladium clusters. <i>Physical Review B</i> , 2006 , 73,	3.3	36
3	Superheating and solid-liquid phase coexistence in nanoparticles with nonmelting surfaces. <i>Physical Review Letters</i> , 2006 , 96, 256101	7.4	37
2	Transition from icosahedral to decahedral structure in a coexisting solid-liquid nickel cluster. <i>Physical Review Letters</i> , 2005 , 95, 116101	7.4	31
1	Static, transient, and dynamic phase coexistence in metal nanoclusters. <i>Journal of Chemical Physics</i> , 2005 , 123, 104701	3.9	32