

Pavel Lvov

List of Publications by Year in Descending Order

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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.

32 papers	133 citations	6 h-index	9 g-index
33 ext. papers	168 ext. citations	1.9 avg, IF	3.39 L-index

#	Paper	IF	Citations
32	Phase-field model of ion transport and intercalation in lithium-ion battery. <i>Journal of Energy Storage</i> , 2022 , 50, 104319	7.8	
31	Time-Fractional Phase Field Model of Electrochemical Impedance. <i>Fractal and Fractional</i> , 2021 , 5, 191	3	3
30	Phase-field simulation of radiation-induced phase transition in binary alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 035013	2	1
29	Two-Step Mechanism of Macromolecular Nucleation and Crystallization: Field Theory and Simulations. <i>Crystal Growth and Design</i> , 2021 , 21, 366-382	3.5	6
28	Electron beam deposition of cobalt on the silicon substrate: Experiment and simulation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021 , 39, 064201	1.3	0
27	Effect of the Particle Size Distribution on the Cahn-Hilliard Dynamics in a Cathode of Lithium-Ion Batteries. <i>Batteries</i> , 2020 , 6, 29	5.7	1
26	Kinetics of nickel particle formation on silicon substrate with a buffer layer of niobium nitride. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 245001	1.8	1
25	Kinetics of radiation defect formation in iron under high displacement rate irradiation. <i>Results in Physics</i> , 2020 , 16, 102896	3.7	1
24	Effect of Fluctuations on the Formation of Secondary Phase Precipitates at Grain Boundaries. <i>Physics of the Solid State</i> , 2019 , 61, 225-232	0.8	1
23	Simulation of Wetting Phase Transitions in Thin Films. <i>Physics of the Solid State</i> , 2019 , 61, 1872-1881	0.8	2
22	Modeling of Nucleation in Binary Alloys on the Basis of the Free-Energy Density Functional. <i>Physics of the Solid State</i> , 2019 , 61, 2425-2430	0.8	
21	Generalized non-classical nucleation model in binary alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 025002	2	4
20	Precipitation Kinetics in Binary Alloys near Grain Boundaries. <i>Physics of the Solid State</i> , 2018 , 60, 791-798	0.8	3
19	Stochastic simulation of nucleation in binary alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 045001	2	7
18	Simulation of the decomposition of binary alloys on the basis of the free energy density functional method. <i>Physics of the Solid State</i> , 2017 , 59, 355-361	0.8	8
17	Influence of grain boundaries on the distribution of components in binary alloys. <i>Physics of the Solid State</i> , 2017 , 59, 2453-2463	0.8	6
16	Simulation of the first order phase transitions in binary alloys with variable mobility. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017 , 25, 075006	2	12

15	Simulation of the early stage of binary alloy decomposition, based on the free energy density functional method. <i>Physics of the Solid State</i> , 2016 , 58, 1432-1439	0.8	6
14	Modeling of phase decomposition of supersaturated solid solutions using the free-energy density functional method. <i>Technical Physics Letters</i> , 2016 , 42, 856-859	0.7	3
13	Simulation of nonclassical nucleation in binary alloys. <i>Physics of the Solid State</i> , 2015 , 57, 1213-1222	0.8	9
12	Thermodynamics of the formation of nanoprecipitates of the second phases with an extended interface. <i>Physics of the Solid State</i> , 2014 , 56, 1889-1898	0.8	5
11	Modeling of chromium nanocluster growth under neutron irradiation. <i>Journal of Nuclear Materials</i> , 2013 , 442, S624-S627	3.3	4
10	Thermodynamics of the phase equilibrium of multicomponent solid solutions containing nano-sized precipitates of the second phase. <i>Physics of the Solid State</i> , 2013 , 55, 2374-2380	0.8	6
9	Influence of composition fluctuations on the formation and growth of clusters in alloys based on the iron-chromium system. <i>Physics of the Solid State</i> , 2012 , 54, 2285-2290	0.8	1
8	Thermodynamics of phase equilibrium of binary alloys containing nanoprecipitates. <i>Physics of the Solid State</i> , 2011 , 53, 421-427	0.8	16
7	Kinetics and thermodynamics of Cr nanocluster formation in Fe-Cr system. <i>Journal of Nuclear Materials</i> , 2011 , 415, 205-209	3.3	21
6	Nanodimensional effects in the phase composition of binary alloys. <i>Technical Physics Letters</i> , 2009 , 35, 1040-1043	0.7	2
5	Clusterization in gases and the law of corresponding states. <i>Technical Physics Letters</i> , 2002 , 28, 521-524	0.7	
4	The clusterization parameters of neon, argon, krypton, and xenon calculated using their P-V diagrams. <i>Technical Physics Letters</i> , 2001 , 27, 209-210	0.7	
3	The effect of clustering on the melting of III-V semiconductors. <i>Technical Physics</i> , 2001 , 46, 1076-1081	0.5	1
2	Thermodynamics of complex formation and defect clustering in semiconductors. <i>Semiconductors</i> , 2000 , 34, 371-375	0.7	2
1	Influence of the surface on the impurity solubility in small-size crystals. <i>Technical Physics Letters</i> , 2000 , 26, 986-988	0.7	1