Pavel L'vov

List of Publications by Year
in descending order

33	206	1040018 9	1125717 13
papers	citations	h-index	g-index

33	33	33	66
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetics and thermodynamics of Cr nanocluster formation in Feâ€“Cr system. Journal of Nuclear Materials, 2011, 415, 205-209.	2.7	26
2	Thermodynamics of phase equilibrium of binary alloys containing nanprecipitates. Physics of the Solid State, 2011, 53, 421-427.	0.6	19
3	Simulation of the first order phase transitions in binary alloys with variable mobility. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 075006.	2.0	14
4	Stochastic simulation of nucleation in binary alloys. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 045001.	2.0	13
5	Two-Step Mechanism of Macromolecular Nucleation and Crystallization: Field Theory and Simulations. Crystal Growth and Design, 2021, 21, 366-382.	3.0	12
6	Simulation of the decomposition of binary alloys on the basis of the free energy density functional method. Physics of the Solid State, 2017, 59, 355-361.	0.6	11
7	Time-Fractional Phase Field Model of Electrochemical Impedance. Fractal and Fractional, 2021, 5, 191.	3.3	11
8	Simulation of nonclassical nucleation in binary alloys. Physics of the Solid State, 2015, 57, 1213-1222.	0.6	10
9	Influence of grain boundaries on the distribution of components in binary alloys. Physics of the Solid State, 2017, 59, 2453-2463.	0.6	10
10	Thermodynamics of the phase equilibrium of multicomponent solid solutions containing nano-sized precipitates of the second phase. Physics of the Solid State, 2013, 55, 2374-2380.	0.6	9
11	Thermodynamics of the formation of nanoprecipitates of the second phases with an extended interface. Physics of the Solid State, 2014, 56, 1889-1898.	0.6	8
12	Simulation of the early stage of binary alloy decomposition, based on the free energy density functional method. Physics of the Solid State, 2016, 58, 1432-1439.	0.6	7
13	Modeling of chromium nanocluster growth under neutron irradiation. Journal of Nuclear Materials, 2013, 442, S624-S627.	2.7	6
14	Generalized non-classical nucleation model in binary alloys. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 025002.	2.0	6
15	Nanodimensional effects in the phase composition of binary alloys. Technical Physics Letters, 2009, 35, 1040-1043.	0.7	5
16	Simulation of Wetting Phase Transitions in Thin Films. Physics of the Solid State, 2019, 61, 1872-1881.	0.6	5
17	Kinetics of nickel particle formation on silicon substrate with a buffer layer of niobium nitride. Journal of Physics Condensed Matter, 2020, 32, 245001.	1.8	4
18	Influence of the surface on the impurity solubility in small-size crystals. Technical Physics Letters, 2000, 26, 986-988.	0.7	3

#	Article	IF	Citations
19	Modeling of phase decomposition of supersaturated solid solutions using the free-energy density functional method. Technical Physics Letters, 2016, 42, 856-859.	0.7	3
20	Precipitation Kinetics in Binary Alloys near Grain Boundaries. Physics of the Solid State, 2018, 60, 791-798.	0.6	3
21	Effect of the Particle Size Distribution on the Cahn-Hilliard Dynamics in a Cathode of Lithium-Ion Batteries. Batteries, 2020, 6, 29.	4.5	3
22	Phase-field simulation of radiation-induced phase transition in binary alloys. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 035013.	2.0	3
23	Thermodynamics of complex formation and defect clustering in semiconductors. Semiconductors, 2000, 34, 371-375.	0.5	2
24	The effect of clustering on the melting of III-V semiconductors. Technical Physics, 2001, 46, 1076-1081.	0.7	2
25	Influence of composition fluctuations on the formation and growth of clusters in alloys based on the iron-chromium system. Physics of the Solid State, 2012, 54, 2285-2290.	0.6	2
26	Kinetics of radiation defect formation in iron under high displacement rate irradiation. Results in Physics, 2020, 16, 102896.	4.1	2
27	Formation of nanoparticles of bi-metallic catalysts for the growth of carbon nanotubes. Journal of Materials Chemistry C, 2022, 10, 5864-5881.	5.5	2
28	Phase-field model of ion transport and intercalation in lithium-ion battery. Journal of Energy Storage, 2022, 50, 104319.	8.1	2
29	The clusterization parameters of neon, argon, krypton, and xenon calculated using their P-V diagrams. Technical Physics Letters, 2001, 27, 209-210.	0.7	1
30	Effect of Fluctuations on the Formation of Secondary Phase Precipitates at Grain Boundaries. Physics of the Solid State, 2019, 61, 225-232.	0.6	1
31	Electron beam deposition of cobalt on the silicon substrate: Experiment and simulation. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, .	1.2	1
32	Clusterization in gases and the law of corresponding states. Technical Physics Letters, 2002, 28, 521-524.	0.7	0
33	Modeling of Nucleation in Binary Alloys on the Basis of the Free-Energy Density Functional. Physics of the Solid State, 2019, 61, 2425-2430.	0.6	0