# Pavel L vov

## List of Publications by Citations



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|---|---|---|---|
| 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 | Kinetics and thermodynamics of Cr nanocluster formation in Fe□r system. *Journal of Nuclear Materials*, **2011**, 415, 205-209 | 3.3 | 21 |
| 31 | Thermodynamics of phase equilibrium of binary alloys containing nanprecipitates. *Physics of the Solid State*, **2011**, 53, 421-427 | 0.8 | 16 |
| 30 | 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 | 12 |
| 29 | Simulation of nonclassical nucleation in binary alloys. *Physics of the Solid State*, **2015**, 57, 1213-1222 | 0.8 | 9 |
| 28 | 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 | 0.8 | 8 |
| 27 | Stochastic simulation of nucleation in binary alloys. *Modelling and Simulation in Materials Science and Engineering*, **2018**, 26, 045001 | 2 | 7 |
| 26 | 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 | 0.8 | 6 |
| 25 | 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 | 0.8 | 6 |
| 24 | Influence of grain boundaries on the distribution of components in binary alloys. *Physics of the Solid State*, **2017**, 59, 2453-2463 | 0.8 | 6 |
| 23 | Two-Step Mechanism of Macromolecular Nucleation and Crystallization: Field Theory and Simulations. *Crystal Growth and Design*, **2021**, 21, 366-382 | 3.5 | 6 |
| 22 | Thermodynamics of the formation of nanoprecipitates of the second phases with an extended interface. *Physics of the Solid State*, **2014**, 56, 1889-1898 | 0.8 | 5 |
| 21 | Modeling of chromium nanocluster growth under neutron irradiation. *Journal of Nuclear Materials*, **2013**, 442, S624-S627 | 3.3 | 4 |
| 20 | Generalized non-classical nucleation model in binary alloys. *Modelling and Simulation in Materials Science and Engineering*, **2019**, 27, 025002 | 2 | 4 |
| 19 | Precipitation Kinetics in Binary Alloys near Grain Boundaries. *Physics of the Solid State*, **2018**, 60, 791-798 | 0.8 | 3 |
| 18 | Time-Fractional Phase Field Model of Electrochemical Impedance. *Fractal and Fractional*, **2021**, 5, 191 | 3 | 3 |
| 17 | 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 |
| 16 | Simulation of Wetting Phase Transitions in Thin Films. *Physics of the Solid State*, **2019**, 61, 1872-1881 | 0.8 | 2 |

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| 15 | Nanodimensional effects in the phase composition of binary alloys. *Technical Physics Letters*, **2009**, 35, 1040-1043 | 0.7 | 2 |
| 14 | Thermodynamics of complex formation and defect clustering in semiconductors. *Semiconductors*, **2000**, 34, 371-375 | 0.7 | 2 |
| 13 | Effect of Fluctuations on the Formation of Secondary Phase Precipitates at Grain Boundaries. *Physics of the Solid State*, **2019**, 61, 225-232 | 0.8 | 1 |
| 12 | Effect of the Particle Size Distribution on the Cahn-Hilliard Dynamics in a Cathode of Lithium-Ion Batteries. *Batteries*, **2020**, 6, 29 | 5.7 | 1 |
| 11 | 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 | 1 |
| 10 | 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 | 0.8 | 1 |
| 9 | The effect of clustering on the melting of III-V semiconductors. *Technical Physics*, **2001**, 46, 1076-1081 | 0.5 | 1 |
| 8 | Influence of the surface on the impurity solubility in small-size crystals. *Technical Physics Letters*, **2000**, 26, 986-988 | 0.7 | 1 |
| 7 | Kinetics of radiation defect formation in iron under high displacement rate irradiation. *Results in Physics*, **2020**, 16, 102896 | 3.7 | 1 |
| 6 | Phase-field simulation of radiation-induced phase transition in binary alloys. *Modelling and Simulation in Materials Science and Engineering*, **2021**, 29, 035013 | 2 | 1 |
| 5 | Electron beam deposition of cobalt on the silicon substrate: Experiment and simulation. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2021**, 39, 064201 | 1.3 | 0 |
| 4 | Clusterization in gases and the law of corresponding states. *Technical Physics Letters*, **2002**, 28, 521-524 | 0.7 | |
| 3 | The clusterization parameters of neon, argon, krypton, and xenon calculated using their P-V diagrams. *Technical Physics Letters*, **2001**, 27, 209-210 | 0.7 | |
| 2 | Modeling of Nucleation in Binary Alloys on the Basis of the Free-Energy Density Functional. *Physics of the Solid State*, **2019**, 61, 2425-2430 | 0.8 | |
| 1 | Phase-field model of ion transport and intercalation in lithium-ion battery. *Journal of Energy Storage*, **2022**, 50, 104319 | 7.8 | |