Ilia K Razumov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solute–grain boundary interaction and segregation formation in Al: First principles calculations and molecular dynamics modeling. Computational Materials Science, 2016, 112, 18-26.	1.4	32
2	Role of magnetism in Cu precipitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>α</mml:mi>-Fe. Physical Review B, 2013, 88, .</mml:math 	1.1	31
3	Towards the ab initio based theory of phase transformations in iron and steel. Physics of Metals and Metallography, 2017, 118, 362-388.	0.3	27
4	Role of magnetic degrees of freedom in a scenario of phase transformations in steel. Physical Review B, 2014, 90, .	1.1	23
5	Formation of the Structural State of a High-Strength Low-Alloy Steel upon Hot Rolling and Controlled Cooling. Physics of Metals and Metallography, 2019, 120, 1233-1241.	0.3	23
6	Kinetics of spinodal decomposition in driven nanocrystalline alloys. Journal of Alloys and Compounds, 2007, 434-435, 535-539.	2.8	14
7	Finite size effect in spinodal decomposition of nanograined materials. Journal of Materials Science, 2004, 39, 5003-5009.	1.7	12
8	Nonequilibrium phase transformations in alloys under severe plastic deformation. Physics-Uspekhi, 2020, 63, 733-757.	0.8	12
9	Scenarios of Nonequilibrium Phase Transformations in Alloys Depending on the Temperature and Intensity of Plastic Deformation. Physics of Metals and Metallography, 2018, 119, 1133-1140.	0.3	11
10	Decomposition kinetics in Fe–Cu dilute alloys. Monte Carlo simulation using concentration-dependent interactions. JETP Letters, 2016, 103, 112-116.	0.4	8
11	Effect of magnetism on kinetics of γ–α transformation and pattern formation in iron. Journal of Physics Condensed Matter, 2013, 25, 135401.	0.7	7
12	Autocatalytic Mechanism of Pearlite Transformation in Steel. Physical Review Applied, 2017, 7, .	1.5	7
13	Intrinsic nanoscale inhomogeneity in ordering systems due to elastic-mediated interactions. Europhysics Letters, 2007, 80, 66001.	0.7	6
14	Grain boundary segregations in nanocrystalline alloys. Russian Journal of Physical Chemistry A, 2014, 88, 494-502.	0.1	6
15	Nonequilibrium Diffusional Phase Transformations in Alloys Induced by Migration of Grain Boundaries and Dislocations. Physics of the Solid State, 2019, 61, 214-224.	0.2	5
16	The simulation of the growth of colonies in the spinodal decomposition of metastable phases. Russian Journal of Physical Chemistry A, 2009, 83, 1682-1688.	0.1	4
17	Pseudospinodal in the Monte Carlo simulation of the decomposition of an alloy. Physics of the Solid State, 2017, 59, 639-643.	0.2	4
18	Formation of intermediate ordered states on spinodal decomposition of alloys. Journal of Engineering Physics and Thermophysics, 2008, 81, 826-833.	0.2	3

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19	Anomalous dispersed states of alloys caused by segregation of impurities at phase interfaces. Physics of the Solid State, 2014, 56, 780-784.	0.2	3
20	Stabilization of growth of a pearlite colony because of interaction between carbon and lattice dilatations. Physics of the Solid State, 2017, 59, 1906-1912.	0.2	3
21	The synthesis of metastable phases in plastic deformation of alloys. Russian Journal of Physical Chemistry A, 2010, 84, 1485-1490.	0.1	2
22	The Model of Decomposition of a Fe–Cu Alloy with Concentration-Depending Interatomic Interactions. Physics of the Solid State, 2019, 61, 952-961.	0.2	2
23	Influence of lattice relaxation on the kinetics of spinodal decomposition of solid solutions. Journal of Engineering Physics and Thermophysics, 2009, 82, 635-641.	0.2	1
24	Role of Magnetism in the Decomposition of α-Fe–Cu Alloy. JETP Letters, 2018, 107, 369-372.	0.4	1
25	Size Effects in Formation of Segregation and Grain-Boundary Decomposition in Nanocrystalline Alloys. Russian Journal of Physical Chemistry A, 2018, 92, 1338-1344.	0.1	1
26	Phase transformations induced by dislocation glide in plastic deformation of alloys. Journal of Engineering Physics and Thermophysics, 2010, 83, 462-470.	0.2	0
27	Possible Mechanisms of the Formation of Bainitic Colonies. Physics of the Solid State, 2019, 61, 80-83.	0.2	0