

Ilia K Razumov

List of Publications by Citations

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27
papers

192
citations

7
h-index

12
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27
ext. papers

219
ext. citations

1.6
avg, IF

3.27
L-index

#	Paper	IF	Citations
27	Role of magnetism in Cu precipitation in α -Fe. <i>Physical Review B</i> , 2013 , 88,	3.3	27
26	Solute-grain boundary interaction and segregation formation in Al: First principles calculations and molecular dynamics modeling. <i>Computational Materials Science</i> , 2016 , 112, 18-26	3.2	22
25	Towards the ab initio based theory of phase transformations in iron and steel. <i>Physics of Metals and Metallography</i> , 2017 , 118, 362-388	1.2	21
24	Role of magnetic degrees of freedom in a scenario of phase transformations in steel. <i>Physical Review B</i> , 2014 , 90,	3.3	19
23	Formation of the Structural State of a High-Strength Low-Alloy Steel upon Hot Rolling and Controlled Cooling. <i>Physics of Metals and Metallography</i> , 2019 , 120, 1233-1241	1.2	16
22	Kinetics of spinodal decomposition in driven nanocrystalline alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 535-539	5.7	13
21	Finite size effect in spinodal decomposition of nanograined materials. <i>Journal of Materials Science</i> , 2004 , 39, 5003-5009	4.3	12
20	Autocatalytic Mechanism of Pearlite Transformation in Steel. <i>Physical Review Applied</i> , 2017 , 7,	4.3	7
19	Decomposition kinetics in Fe-Cu dilute alloys. Monte Carlo simulation using concentration-dependent interactions. <i>JETP Letters</i> , 2016 , 103, 112-116	1.2	7
18	Scenarios of Nonequilibrium Phase Transformations in Alloys Depending on the Temperature and Intensity of Plastic Deformation. <i>Physics of Metals and Metallography</i> , 2018 , 119, 1133-1140	1.2	7
17	Intrinsic nanoscale inhomogeneity in ordering systems due to elastic-mediated interactions. <i>Europhysics Letters</i> , 2007 , 80, 66001	1.6	6
16	Grain boundary segregations in nanocrystalline alloys. <i>Russian Journal of Physical Chemistry A</i> , 2014 , 88, 494-502	0.7	5
15	Effect of magnetism on kinetics of α -transformation and pattern formation in iron. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 135401	1.8	5
14	Pseudospinodal in the Monte Carlo simulation of the decomposition of an alloy. <i>Physics of the Solid State</i> , 2017 , 59, 639-643	0.8	4
13	Anomalous dispersed states of alloys caused by segregation of impurities at phase interfaces. <i>Physics of the Solid State</i> , 2014 , 56, 780-784	0.8	3
12	Stabilization of growth of a pearlite colony because of interaction between carbon and lattice dilatations. <i>Physics of the Solid State</i> , 2017 , 59, 1906-1912	0.8	3
11	The simulation of the growth of colonies in the spinodal decomposition of metastable phases. <i>Russian Journal of Physical Chemistry A</i> , 2009 , 83, 1682-1688	0.7	3

10	The Model of Decomposition of a FeCu Alloy with Concentration-Depending Interatomic Interactions. <i>Physics of the Solid State</i> , 2019 , 61, 952-961	0.8	2
9	The synthesis of metastable phases in plastic deformation of alloys. <i>Russian Journal of Physical Chemistry A</i> , 2010 , 84, 1485-1490	0.7	2
8	Formation of intermediate ordered states on spinodal decomposition of alloys. <i>Journal of Engineering Physics and Thermophysics</i> , 2008 , 81, 826-833	0.6	2
7	Nonequilibrium phase transformations in alloys under severe plastic deformation. <i>Physics-Uspekhi</i> , 2020 , 63, 733-757	2.8	2
6	Nonequilibrium Diffusional Phase Transformations in Alloys Induced by Migration of Grain Boundaries and Dislocations. <i>Physics of the Solid State</i> , 2019 , 61, 214-224	0.8	1
5	Role of Magnetism in the Decomposition of FeCu Alloy. <i>JETP Letters</i> , 2018 , 107, 369-372	1.2	1
4	Size Effects in Formation of Segregation and Grain-Boundary Decomposition in Nanocrystalline Alloys. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 1338-1344	0.7	1
3	Influence of lattice relaxation on the kinetics of spinodal decomposition of solid solutions. <i>Journal of Engineering Physics and Thermophysics</i> , 2009 , 82, 635-641	0.6	1
2	Possible Mechanisms of the Formation of Bainitic Colonies. <i>Physics of the Solid State</i> , 2019 , 61, 80-83	0.8	
1	Phase transformations induced by dislocation glide in plastic deformation of alloys. <i>Journal of Engineering Physics and Thermophysics</i> , 2010 , 83, 462-470	0.6	