Andrey R Kuznetsov

List of Publications by Year
in descending order

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27 papers	360 citations	840585 11 h-index	794469 19 g-index
27 all docs	27 docs citations	27 times ranked	334 citing authors

#	Article	IF	Citations
1	Effect of magnetic state on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Î±</mml:mi></mml:mrow></mml:math>tra in iron: First-principles calculations of the Bain transformation path. Physical Review B, 2009, 79, .	1.1	61
2	Soluteâ€“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
3	Atomic displacements and short-range order in the FeSi soft magnetic alloy: Experiment and ab initio calculations. Physics of the Solid State, 2007, 49, 2290-2297.	0.2	26
4	Composition of cementite in the dependence on the temperature. In situ neutron diffraction study and Ab initio calculations. JETP Letters, 2010, 91, 143-146.	0.4	25
5	Role of magnetism in the formation of a short-range order in iron-silicon alloys. Journal of Experimental and Theoretical Physics, 2011, 112, 848-859.	0.2	23
6	Crystallographic analysis of slip transfer mechanisms across the ferrite/cementite interface in carbon steels with fine lamellar structure. Journal of Applied Crystallography, 2015, 48, 97-106.	1.9	22
7	Effect of the dislocations on the kinetics of a martensitic transition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 168-172.	2.6	19
8	Deformation-induced dissolution of the intermetallics Ni3Ti and Ni3Al in austenitic steels at cryogenic temperatures. Philosophical Magazine, 2016, 96, 1724-1742.	0.7	19
9	The anomalous diffusion processes â€œdissolution-precipitationâ€•of THE Î³â€² Phase Ni3Al in AN Feâ€“Niâ€“Al alloy during low-temperature deformation. Materials Letters, 2016, 172, 207-210.	1.3	14
10	Atomistic simulation of stacking faults in (001), (010), and (100) planes of cementite. Physics of Metals and Metallography, 2014, 115, 85-97.	0.3	13
11	Microscopic description of the kinetics of a martensitic transition in real crystals: bcc-hcp transition in Zr. JETP Letters, 1999, 70, 380-384.	0.4	12
12	Reconstruction of grain boundaries during austeniteâ€“ferrite transformation. Scripta Materialia, 2005, 53, 153-158.	2.6	12
13	Effect of Magnetism on Short-Range Order Formation in Fe-Si and Fe-Al Alloys. Solid State Phenomena, 0, 172-174, 618-623.	0.3	12
14	Effect of composition and temperature on the redistribution of alloying elements in Fe-Cr-Ni alloys during cold deformation. Physics of Metals and Metallography, 2008, 106, 291-301.	0.3	11
15	Molecular dynamics simulation of a swift ion track in NiAl. Nuclear Instruments & Methods in Physics Research B, 2004, 225, 97-104.	0.6	10
16	Formation of grain boundary segregations in alloy Fe-Cr-Ni during strong deformation and under radiation. Physics of Metals and Metallography, 2012, 113, 241-245.	0.3	10
17	Peculiarities of Interactions of Alloying Elements with Grain Boundaries and the Formation of Segregations in Alâ€“Mg and Alâ€“Zn Alloys. Physics of Metals and Metallography, 2018, 119, 607-612.	0.3	10
18	Effects of Zn and Mg Segregations on the Grain Boundary Sliding and Cohesion in Al: Ab Initio Modeling. Metals, 2021, 11, 631.	1.0	8

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19	Alloying Element Segregation and Grain Boundary Reconstruction, Atomistic Modeling. Metals, 2019, 9, 1319.	1.0	7
20	Grain-Boundary Shear-Migration Coupling in Al Bicrystals. Atomistic Modeling. Physics of the Solid State, 2018, 60, 1916-1923.	0.2	5
21	Deformation-Induced Dissolution of Ni3Al Particles in Nickel: Atomistic Simulation. Physics of Metals and Metallography, 2019, 120, 1187-1192.	0.3	3
22	Formation of low-temperature deformation-induced segregations of nickel in Feâ€“Ni-based austenitic alloys. Philosophical Magazine, 2020, 100, 1868-1879.	0.7	3
23	Influence of the temperature and rate of generation of point defects on the processes of deformation-induced segregation in the Fe-Cr-Ni alloy. Physics of Metals and Metallography, 2010, 109, 376-382.	0.3	2
24	The model of deformation-induced segregation near a moving grain boundary in the Fe-Cr-Ni alloy. Physics of Metals and Metallography, 2006, 102, 135-139.	0.3	1
25	Martensitic transformation during coalescence of Feâ€“Ni nanoparticles. Atomistic simulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2965-2972.	0.9	0
26	Experimental and numerical analysis of magnetic susceptibility of the tetranuclear heterometallic SMM complexes [Me₂ ^{II}Fe₂ Me = Co, Ni with dicubane structure. Journal of Physics: Conference Series, 2019, 1389, 012020.	0.3	0
27	THEORETICAL MODELS FOR THE DESCRIPTION OF DEFORMATION-INDUCED SEGREGATION IN SUBSTITUTIONAL ALLOYS. Diagnostics Resource and Mechanics of Materials and Structures, 2018, , 42-59.	0.1	0