Alexey Lipnitskii

List of Publications by Year in Descending Order

25 papers	145 citations	8 h-index	11 g-index
25 ext. papers	164 ext. citations	1.5 avg, IF	2.03 L-index

#	Paper	IF	Citations
25	A molecular-dynamics simulation of grain-boundary diffusion of niobium and experimental investigation of its recrystallization in a niobium-copper system. *Russian Physics Journal*, **2013**, 56, 330-337	0.7	8
24	Grain boundary segregation of C, N and O in hexagonal close-packed titanium from first principles. *Modelling and Simulation in Materials Science and Engineering*, **2013**, 21, 075009	2	11
23	Investigations of the thermal stability of the microstructure of titanium produced by intense plastic deformation. *Russian Physics Journal*, **2012**, 54, 918-936	0.7	10
22	Ab initio study of Ti□ precipitates in hcp titanium: Formation energies, elastic moduli and theoretical diffraction patterns. *Computational Materials Science*, **2012**, 65, 434-441	3.2	14
21	Self-Diffusion Parameters of Grain Boundaries and Triple Junctions in Nanocrystalline Materials. *Defect and Diffusion Forum*, **2011**, 309-310, 45-50	0.7	8
20	Formation of a pentagonal particle structure from copper nanoclusters. *Russian Physics Journal*, **2009**, 52, 138-143	0.7	2
19	Ab initio calculation of characteristics of a hcpti□ system in □itanium. *Russian Physics Journal*, **2009**, 52, 1047-1051	0.7	1
18	Study of the evolution of the Cu/Nb interphase boundary by the molecular dynamics method. *Russian Physics Journal*, **2009**, 52, 1193-1198	0.7	4
17	Investigations and computer simulations of the intergrain diffusion in submicro-and nanocrystalline metals. *Russian Physics Journal*, **2008**, 51, 385-399	0.7	11
16	Vacancies and their complexes in FCC metals. *Physics of the Solid State*, **2007**, 49, 1079-1085	0.8	12
15	On structural defect generation induced by thermal fluctuations in materials with a perfect lattice under dynamic loading. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 349, 509-512	2.3	16
14	Molecular-dynamics study of crystal structure defect formation by the thermal fluctuation mechanism during high-rate deformation. *Technical Physics Letters*, **2006**, 32, 101-102	0.7	0
13	Studying grain-boundary stresses in copper by the molecular-statics method. *Physics of Metals and Metallography*, **2006**, 101, 303-308	1.2	1
12	Nucleation of structural defects in materials with a perfect crystal lattice by thermal fluctuations under dynamic loading. *Combustion, Explosion and Shock Waves*, **2006**, 42, 490-492	1	
11	The () surface electronic structure of FeTi, CoTi, and NiTi. *Surface Science*, **2002**, 507-510, 199-206	1.8	12
10	Fractal Dimension and Effects of Correlation of the Mesostructure of the Surface of Plastically Deformed Iron Silicide Polycrystals and Austenitic Corrosion-Resistant Steel. *Metal Science and Heat Treatment*, **2001**, 43, 89-94	0.6	3
9	Effect of grain boundary on the character of pulse-train-induced cleavage fracture in copper crystal. *Technical Physics Letters*, **2000**, 26, 323-325	0.7	

8	Specific features of the nanoscopic spalling fracture near the grain boundary. *Combustion, Explosion and Shock Waves*, **2000**, 36, 667-669	1	
7	Application of fractals to the analysis of friction processes. *Technical Physics Letters*, **1999**, 25, 119-121	0.7	3
6	Characteristics of cleavage fracture during interaction of nonlinear waves with the free surface of a copper single crystal. *Technical Physics Letters*, **1999**, 25, 936-937	0.7	2
5	Vacancies at low-index surfaces of transition metals and aluminum. *Physics of the Solid State*, **1997**, 39, 1230-1231	0.8	3
4	Vibrations on the (110) surface of FCC metals. *Vacuum*, **1995**, 46, 625-628	3.7	13
3	Surface electronic structure of Ni3Al(001). *Vacuum*, **1994**, 45, 175-177	3.7	6
2	Relativistic electronic structure of the Pb (001) surface. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1991**, 34, 888-893		
1	The first-principles calculations of the electronic structure of the surfaces of pure metals and layers adsorbed on their surfaces. *Electrochimica Acta*, **1989**, 34, 19-27	6.7	5