

Elena V Levchenko

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

617
citations

16
h-index

21
g-index

73
ext. papers

647
ext. citations

1.9
avg, IF

3.59
L-index

#	Paper	IF	Citations
64	About a fundamental uncertainty of the contact angle of the catalyst drop on the top of the nanowire. <i>Journal of Applied Physics</i> , 2021 , 129, 164302	2.5	1
63	Insight into interrelation between single-particle and collective diffusion in binary melts. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 490, 1446-1453	3.3	5
62	Diffusion in NiZr Melts: Insights from Statistical Mechanics and Atomistic Modeling. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800109	3.5	1
61	Molecular Dynamics Prediction of the Influence of Composition on Thermotransport in Ni-Al Melts 2017 , 12, 93-110		3
60	Composition dependence of diffusion and thermotransport in Ni-Al melts: A step towards molecular dynamics assisted databases. <i>Acta Materialia</i> , 2017 , 136, 74-89	8.4	17
59	The Manning factor for direct exchange and ring diffusion mechanisms. <i>Philosophical Magazine</i> , 2017 , 97, 230-247	1.6	8
58	Insight into lattice thermal impedance via equilibrium molecular dynamics: case study on Al. <i>Philosophical Magazine</i> , 2016 , 96, 596-619	1.6	4
57	Molecular Dynamics Study of Mass Transport Properties of Liquid Cu-Ag Alloys 2016 , 9, 58-72		4
56	Influence of the interatomic potential on thermotransport in binary liquid alloys: case study on NiAl. <i>Philosophical Magazine</i> , 2016 , 96, 3054-3074	1.6	11
55	Molecular dynamics study of phonon-mediated thermal transport in a Ni50Al50 melt: case analysis of the influence of the process on the kinetics of solidification. <i>Philosophical Magazine</i> , 2015 , 95, 90-111	1.6	10
54	Two-fluid nature of phonon heat conduction in a monatomic lattice. <i>Philosophical Magazine</i> , 2015 , 95, 2571-2595	1.6	2
53	Comparison of the Sauer-Freise and Hall Methods for Obtaining Interdiffusion Coefficients in Binary Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2015 , 36, 366-374	1	9
52	Phonon-mediated heat dissipation in a monatomic lattice: case study on Ni. <i>Philosophical Magazine</i> , 2015 , 95, 3640-3673	1.6	4
51	Vibrational contribution to thermal transport in liquid copper: Equilibrium molecular dynamics study. <i>Computational Materials Science</i> , 2015 , 96, 229-236	3.2	4
50	Molecular dynamics prediction of phonon-mediated thermal conductivity of f.c.c. Cu. <i>Philosophical Magazine</i> , 2014 , 94, 731-751	1.6	14
49	Decomposition model for phonon thermal conductivity of a monatomic lattice. <i>Philosophical Magazine</i> , 2014 , 94, 3992-4014	1.6	9
48	Semigrand Canonical and Kinetic Monte Carlo simulations of binary B2-ordered nano-films with triple defects. <i>Intermetallics</i> , 2014 , 55, 40-48	3.5	

47	Thermotransport in binary system: case study on Ni50Al50 melt. <i>Philosophical Magazine</i> , 2014 , 94, 3574-3602	17
46	Theoretical Study of the Heat of Transport in a Liquid Ni50Al50 Alloy: Green-Kubo Approach 2014 , 2, 159-189	5
45	A structural model for surface-enhanced stabilization in some metallic glass formers. <i>Philosophical Magazine Letters</i> , 2013 , 93, 50-57	1 5
44	Structure change of the Cu64Zr36 metallic glass in the conditions of uniaxial deformation. <i>Glass Physics and Chemistry</i> , 2013 , 39, 155-161	0.7 1
43	Molecular dynamics simulation of alloying in an Al-coated Ti nanoparticle. <i>Computational Materials Science</i> , 2013 , 79, 316-325	3.2 17
42	Self-diffusion and order-order kinetics in B2-ordering AB binary systems with a tendency for triple-defect formation: Monte Carlo simulation. <i>Philosophical Magazine</i> , 2013 , 93, 1987-1998	1.6 10
41	Phonon Thermal Conductivity of F.C.C. Cu by Molecular Dynamics Simulation. <i>Defect and Diffusion Forum</i> , 2013 , 336, 169-184	0.7 4
40	Molecular dynamics simulation of surface segregation, diffusion and reaction phenomena in equiatomic Ni-Al systems. <i>Physics of Metals and Metallography</i> , 2012 , 113, 1202-1243	1.2 8
39	Molecular dynamics simulation of alloying in a Ti-coated Al nanoparticle. <i>Intermetallics</i> , 2012 , 22, 193-203	3.5 22
38	Structural stability and energy of a Pd2Ni nanofilm: ab initio calculations. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8205-10	1.3
37	Molecular dynamics simulation of diffusion in a (110) B2-NiAl film. <i>Intermetallics</i> , 2011 , 19, 848-854	3.5 15
36	Molecular dynamics study of reaction pathways in an Al-coated Ni nanoparticle. <i>Intermetallics</i> , 2011 , 19, 934-941	3.5 18
35	Structural organization in the Cu80Zr20 metallic glass. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 112, 1013-1019	1
34	Molecular dynamics determination of the time-temperature-transformation diagram for crystallization of an undercooled liquid Ni50Al50 alloy. <i>Acta Materialia</i> , 2011 , 59, 6412-6419	8.4 21
33	Molecular dynamics simulation of surface segregation in a (110) B2-NiAl thin film. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1214-21	3.6 15
32	Molecular dynamics simulation of the alloying reaction in Al-coated Ni nanoparticle. <i>Computational Materials Science</i> , 2010 , 47, 712-720	3.2 50
31	Molecular dynamics study of density, surface energy and self-diffusion in a liquid Ni50Al50 alloy. <i>Computational Materials Science</i> , 2010 , 50, 331-337	3.2 16
30	Molecular dynamics simulation of the thermophysical properties of an undercooled liquid Ni50Al50 alloy. <i>Computational Materials Science</i> , 2010 , 50, 465-473	3.2 19

29	Cluster model of the structural organization of amorphous iron. <i>Physics of Metals and Metallography</i> , 2010 , 109, 563-567	1.2	3
28	Carbon Diffusion in Cementite: A Molecular Dynamics Study. <i>Defect and Diffusion Forum</i> , 2009 , 283-286, 24-29	0.7	1
27	Formation of a Hollow Binary Alloy Nanosphere: A Kinetic Monte Carlo Study. <i>Journal of Nano Research</i> , 2009 , 7, 11-17	1	10
26	Surface-Sandwich Segregation Phenomena in Bimetallic Ag-Ni and Pd-Ni Nanoparticles: A Molecular Dynamics Study. <i>Defect and Diffusion Forum</i> , 2009 , 289-292, 657-664	0.7	1
25	Composition Effect on Shrinkage of Hollow Binary Alloy Nanospheres. <i>Defect and Diffusion Forum</i> , 2009 , 289-292, 665-672	0.7	2
24	Molecular dynamics simulation and theoretical analysis of carbon diffusion in cementite. <i>Acta Materialia</i> , 2009 , 57, 846-853	8.4	24
23	Reaction of a Ni-coated Al nanoparticle to form B2-NiAl: A molecular dynamics study. <i>Philosophical Magazine Letters</i> , 2009 , 89, 815-830	1	24
22	Interdiffusion and surface-sandwich ordering in initial Ni-core-Pd-shell nanoparticle. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3233-40	3.6	19
21	The Synthesis, Stability and Shrinkage of Hollow Nanoparticles: An Overview. <i>Journal of Nano Research</i> , 2009 , 7, 19-26	1	7
20	Theoretical Studies of Diffusion Kinetics in Austenite. <i>Defect and Diffusion Forum</i> , 2008 , 273-276, 455-460.	0.7	4
19	Modelling of the Formation of Pd-Ni Alloy Nanoparticles by Interdiffusion. <i>Defect and Diffusion Forum</i> , 2008 , 277, 207-212	0.7	4
18	Shrinking kinetics by vacancy diffusion of hollow binary alloy nanospheres driven by the Gibbs-Thomson effect. <i>Philosophical Magazine</i> , 2008 , 88, 1525-1541	1.6	13
17	Theoretical Analysis and Atomistic Modelling of Diffusion and Stability of Pure Element Hollow Nanospheres and Nanotubes. <i>Defect and Diffusion Forum</i> , 2008 , 277, 21-26	0.7	5
16	Atomic Mechanism of Carbon Diffusion in Cementite. <i>Defect and Diffusion Forum</i> , 2008 , 277, 101-106	0.7	2
15	Structural organization of icosahedral coordination polyhedra in a molecular dynamics model of the Ni ₆₀ Ag ₄₀ metallic glass. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 430-434	1	1
14	Shrinking kinetics by vacancy diffusion of a pure element hollow nanosphere. <i>Philosophical Magazine</i> , 2007 , 87, 3787-3796	1.6	24
13	Stability of Hollow Nanospheres: A Molecular Dynamics Study. <i>Solid State Phenomena</i> , 2007 , 129, 125-130.	0.4	9
12	Molecular-dynamics study of the Ni ₆₀ Ag ₄₀ binary alloy glass transition. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 105, 1184-1189	1	7

11	Stability and Shrinkage by Diffusion in Hollow Nanotubes. <i>Defect and Diffusion Forum</i> , 2007 , 266, 39-47	0.7	4
10	Kinetic and molecular dynamics analysis of carbon diffusion in austenite. <i>Philosophical Magazine</i> , 2007 , 87, 4335-4357	1.6	2
9	Simulation of the Oriented Crystallisation of Cu/Pd(001) Amorphous Film. <i>Solid State Phenomena</i> , 2006 , 115, 311-314	0.4	
8	Influence of Liquid-Glass Transition on Diffusion and Nucleation in Computer-Simulated Iron. <i>Defect and Diffusion Forum</i> , 2006 , 249, 97-104	0.7	4
7	Molecular Dynamics Study of Carbon Diffusion in Austenite. <i>Defect and Diffusion Forum</i> , 2006 , 258-260, 253-258	0.7	
6	Kinetics of isothermal nucleation in a supercooled iron melt. <i>Physics of the Solid State</i> , 2006 , 48, 815-820	0.8	26
5	The influence of the icosahedral percolation transition in supercooled liquid iron on the diffusion mobility of atoms. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 521-527	1	10
4	Short-Range Order in Pd _{42.5} Cu ₃₀ Ni _{7.5} P ₂₀ Bulk and Ribbon Metallic Glasses. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 22, 65-70	0.2	
3	Atomic mechanisms of pure iron vitrification. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 99, 522-529	1	32
2	Atomic mechanisms of formation and structure relaxation of Fe ₈₃ M ₁₇ (M: C, B, P) metallic glass. <i>Acta Materialia</i> , 2003 , 51, 2665-2674	8.4	23
1	Structural model for vitrification of pure metals. <i>JETP Letters</i> , 2002 , 76, 104-106	1.2	11