

Graeme Murch

List of Publications by Citations

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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.

23
papers

323
citations

13
h-index

17
g-index

23
ext. papers

349
ext. citations

2.9
avg, IF

2.89
L-index

#	Paper	IF	Citations
23	Molecular dynamics simulation of the alloying reaction in Al-coated Ni nanoparticle. <i>Computational Materials Science</i> , 2010 , 47, 712-720	3.2	50
22	Molecular dynamics simulation and theoretical analysis of carbon diffusion in cementite. <i>Acta Materialia</i> , 2009 , 57, 846-853	8.4	24
21	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
20	Molecular dynamics simulation of alloying in a Ti-coated Al nanoparticle. <i>Intermetallics</i> , 2012 , 22, 193-203	3.5	22
19	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
18	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
17	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
16	Mechanical and Microstructural Characterization of an AZ91?Activated Carbon Syntactic Foam. <i>Materials</i> , 2018 , 12,	3.5	18
15	Molecular dynamics study of reaction pathways in an Al-coated Ni nanoparticle. <i>Intermetallics</i> , 2011 , 19, 934-941	3.5	18
14	Molecular dynamics simulation of alloying in an Al-coated Ti nanoparticle. <i>Computational Materials Science</i> , 2013 , 79, 316-325	3.2	17
13	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
12	Molecular dynamics simulation of diffusion in a (110) B2-NiAl film. <i>Intermetallics</i> , 2011 , 19, 848-854	3.5	15
11	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
10	Formation of a Hollow Binary Alloy Nanosphere: A Kinetic Monte Carlo Study. <i>Journal of Nano Research</i> , 2009 , 7, 11-17	1	10
9	The Synthesis, Stability and Shrinkage of Hollow Nanoparticles: An Overview. <i>Journal of Nano Research</i> , 2009 , 7, 19-26	1	7
8	A structural model for surface-enhanced stabilization in some metallic glass formers. <i>Philosophical Magazine Letters</i> , 2013 , 93, 50-57	1	5
7	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

6	Vibrational contribution to thermal transport in liquid copper: Equilibrium molecular dynamics study. <i>Computational Materials Science</i> , 2015 , 96, 229-236	3.2	4
5	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
4	Modelling of the Formation of Pd-Ni Alloy Nanoparticles by Interdiffusion. <i>Defect and Diffusion Forum</i> , 2008 , 277, 207-212	0.7	4
3	Stability and Shrinkage by Diffusion in Hollow Nanotubes. <i>Defect and Diffusion Forum</i> , 2007 , 266, 39-47	0.7	4
2	Atomic Mechanism of Carbon Diffusion in Cementite. <i>Defect and Diffusion Forum</i> , 2008 , 277, 101-106	0.7	2
1	Impact loading of functionally graded metal syntactic foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 839, 142831	5.3	0