Graeme Murch

List of Publications by Year in Descending Order

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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	Impact loading of functionally graded metal syntactic foams. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 839, 142831	5.3	0
22	Mechanical and Microstructural Characterization of an AZ91?Activated Carbon Syntactic Foam. *Materials*, **2018**, 12,	3.5	18
21	Vibrational contribution to thermal transport in liquid cooper: Equilibrium molecular dynamics study. *Computational Materials Science*, **2015**, 96, 229-236	3.2	4
20	A structural model for surface-enhanced stabilization in some metallic glass formers. *Philosophical Magazine Letters*, **2013**, 93, 50-57	1	5
19	Molecular dynamics simulation of alloying in an Al-coated Ti nanoparticle. *Computational Materials Science*, **2013**, 79, 316-325	3.2	17
18	Phonon Thermal Conductivity of F.C.C. Cu by Molecular Dynamics Simulation. *Defect and Diffusion Forum*, **2013**, 336, 169-184	0.7	4
17	Molecular dynamics simulation of alloying in a Ti-coated Al nanoparticle. *Intermetallics*, **2012**, 22, 193-202	3.5	22
16	Molecular dynamics simulation of diffusion in a (110) B2-NiAl film. *Intermetallics*, **2011**, 19, 848-854	3.5	15
15	Molecular dynamics study of reaction pathways in an Al-coated Ni nanoparticle. *Intermetallics*, **2011**, 19, 934-941	3.5	18
14	Molecular dynamics determination of the time□temperature□transformation diagram for crystallization of an undercooled liquid Ni50Al50 alloy. *Acta Materialia*, **2011**, 59, 6412-6419	8.4	21
13	Molecular dynamics simulation of surface segregation in a (110) B2-NiAl thin film. *Physical Chemistry Chemical Physics*, **2011**, 13, 1214-21	3.6	15
12	Molecular dynamics simulation of the alloying reaction in Al-coated Ni nanoparticle. *Computational Materials Science*, **2010**, 47, 712-720	3.2	50
11	Molecular dynamics study of density, surface energy and self-diffusion in a liquid Ni50Al50 alloy. *Computational Materials Science*, **2010**, 50, 331-337	3.2	16
10	Molecular dynamics simulation of the thermophysical properties of an undercooled liquid Ni50Al50 alloy. *Computational Materials Science*, **2010**, 50, 465-473	3.2	19
9	Formation of a Hollow Binary Alloy Nanosphere: A Kinetic Monte Carlo Study. *Journal of Nano Research*, **2009**, 7, 11-17	1	10
8	Molecular dynamics simulation and theoretical analysis of carbon diffusion in cementite. *Acta Materialia*, **2009**, 57, 846-853	8.4	24
7	Reaction of a Ni-coated Al nanoparticle to form B2-NiAl: A molecular dynamics study. *Philosophical Magazine Letters*, **2009**, 89, 815-830	1	24

6	Interdiffusion and surface-sandwich ordering in initial Ni-core-Pd-shell nanoparticle. *Physical Chemistry Chemical Physics*, **2009**, 11, 3233-40	3.6	19
5	The Synthesis, Stability and Shrinkage of Hollow Nanoparticles: An Overview. *Journal of Nano Research*, **2009**, 7, 19-26	1	7
4	Modelling of the Formation of Pd-Ni Alloy Nanoparticles by Interdiffusion. *Defect and Diffusion Forum*, **2008**, 277, 207-212	0.7	4
3	Theoretical Analysis and Atomistic Modelling of Diffusion and Stability of Pure Element Hollow Nanospheres and Nanotubes. *Defect and Diffusion Forum*, **2008**, 277, 21-26	0.7	5
2	Atomic Mechanism of Carbon Diffusion in Cementite. *Defect and Diffusion Forum*, **2008**, 277, 101-106	0.7	2
1	Stability and Shrinkage by Diffusion in Hollow Nanotubes. *Defect and Diffusion Forum*, **2007**, 266, 39-47	0.7	4