Ying Chen

List of Publications by Year
in descending order

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21 papers	768 citations	687363 13 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	842 citing authors

#	Article	IF	Citations
1	Size effects in shape memory alloy microwires. Acta Materialia, 2011, 59, 537-553.	7.9	151
2	Oligocrystalline Shape Memory Alloys. Advanced Functional Materials, 2012, 22, 2094-2099.	14.9	124
3	Diffusion on grain boundary networks: Percolation theory and effective medium approximations. Acta Materialia, 2006, 54, 4709-4720.	7.9	83
4	Contribution of triple junctions to the diffusion anomaly in nanocrystalline materials. Scripta Materialia, 2007, 57, 253-256.	5.2	67
5	Shape memory and superelasticity in polycrystalline Cuâ€“Alâ€“Ni microwires. Applied Physics Letters, 2009, 95, .	3.3	67
6	Grain boundary engineering of Coâ€“Niâ€“Al, Cuâ€“Znâ€“Al, and Cuâ€“Alâ€“Ni shape memory alloys by intergranular precipitation of a ductile solid solution phase. Scripta Materialia, 2016, 115, 113-117.	5.2	55
7	Geometric considerations for diffusion in polycrystalline solids. Journal of Applied Physics, 2007, 101, 063524.	2.5	47
8	Template-based fabrication of nanoporous metals. Journal of Materials Research, 2018, 33, 2-15.	2.6	31
9	A coupled kinetic Monte Carloâ€“finite element mesoscale model for thermoelastic martensitic phase transformations in shape memory alloys. Acta Materialia, 2015, 83, 431-447.	7.9	26
10	Nanoindentation studies of small-scale martensitic transformations and ductile precipitate effects in dual-phase polycrystalline shape memory alloys. Acta Materialia, 2015, 91, 112-127.	7.9	19
11	Finite Element Simulation of Hot Nanoindentation in Vacuum. Experimental Mechanics, 2013, 53, 1201-1211.	2.0	18
12	Nonlocal Superelastic Model of Size-Dependent Hardening and Dissipation in Single Crystal Cu-Al-Ni Shape Memory Alloys. Physical Review Letters, 2011, 106, 085504.	7.8	17
13	Percolation of Diffusional Creep: A New Universality Class. Physical Review Letters, 2007, 98, 035701.	7.8	13
14	Coble creep in heterogeneous materials: The role of grain boundary engineering. Physical Review B, 2007, 76, .	3.2	10
15	Effective transport properties of random composites: Continuum calculations versus mapping to a network. Physical Review E, 2009, 80, 040103.	2.1	10
16	Elasticity of Random Multiphase Materials: Percolation of the Stiffness Tensor. Journal of Statistical Physics, 2016, 162, 232-241.	1.2	7
17	Nanocrystalline gradient engineering: Grain evolution and grain boundary networks. Computational Materials Science, 2018, 141, 282-292.	3.0	7
18	Nanoscale martensitic phase transition at interfaces in shape memory materials. Applied Physics Letters, 2017, 110, .	3.3	6

#	Article	IF	Citations
19	Cyclic mechanical properties of copper-based shape memory alloys: The effect of strain accommodation at grain boundaries. International Journal of Fatigue, 2017, 105, 1-6.	5.7	4
20	Analytical homogenization method for periodic composite materials. Physical Review B, 2009, 79, .	3.2	3
21	Grain boundary networks in nanocrystalline alloys from atom probe tomography quantization and autocorrelation mapping. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2302-2308.	1.8	3