

Diana Farkas

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.

77
papers

1,983
citations

27
h-index

42
g-index

77
ext. papers

2,256
ext. citations

4.3
avg, IF

5.53
L-index

#	Paper	IF	Citations
77	Dislocation emission and propagation under a nano-indenter in a model high entropy alloy. <i>Computational Materials Science</i> , 2022 , 205, 111218	3.2	0
76	Deformation behavior of a model high entropy alloy from atomistic simulations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 141124	5.3	5
75	The Mechanical Response of Nanoporous Gold and Silver Foams with Varying Composition and Surface Segregation. <i>Acta Materialia</i> , 2021 , 203, 116445	8.4	4
74	Varying Diffusion Kinetics Along Random Grain Boundaries in a Model Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 1117-1126	2.3	2
73	Deformation response of high entropy alloy nanowires. <i>Journal of Materials Science</i> , 2021 , 56, 16447-16463	4.3	1
72	Grain boundary structure in high-entropy alloys. <i>Journal of Materials Science</i> , 2020 , 55, 9173-9183	4.3	12
71	Dislocations in Grain Boundary Regions: The Origin of Heterogeneous Microstrains in Nanocrystalline Materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 513-530	2.3	14
70	Stress Localization Resulting from Grain Boundary Dislocation Interactions in Relaxed and Defective Grain Boundaries. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 667-683	2.3	10
69	Fracture in nanoporous gold: An integrated computational and experimental study. <i>Acta Materialia</i> , 2020 , 185, 257-270	8.4	10
68	Atomistic modeling of dislocations in a random quinary high-entropy alloy. <i>Computational Materials Science</i> , 2020 , 173, 109366	3.2	17
67	Model interatomic potentials for FeNiCrCoAl high-entropy alloys. <i>Journal of Materials Research</i> , 2020 , 35, 3031-3040	2.5	14
66	Dislocation content in random high angle grain boundaries. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 045005	2	7
65	Mechanical response of a bicontinuous copper/holybdenum nano-composite: Experiments and simulations. <i>Acta Materialia</i> , 2019 , 178, 79-89	8.4	9
64	Deformation mechanisms and scaling relations in the mechanical response of nano-porous Au. <i>Acta Materialia</i> , 2019 , 165, 626-637	8.4	20
63	Indentation response of nanoporous gold from atomistic simulations. <i>Journal of Materials Research</i> , 2018 , 33, 1382-1390	2.5	10
62	Connecting interatomic potential characteristics with deformation response in FCC materials. <i>Computational Materials Science</i> , 2018 , 147, 18-27	3.2	15
61	Mechanical response of nanoporous metals: A story of size, surface stress, and severed struts. <i>MRS Bulletin</i> , 2018 , 43, 35-42	3.2	56

60	Mechanical Response of Au Foams of Varying Porosity from Atomistic Simulations. <i>Jom</i> , 2018 , 70, 2185-2191	16
59	Model interatomic potentials and lattice strain in a high-entropy alloy. <i>Journal of Materials Research</i> , 2018 , 33, 3218-3225	2.5 81
58	Deformation response of grain boundary networks at high temperature. <i>Journal of Materials Science</i> , 2018 , 53, 5696-5705	4.3 10
57	Hardening under compression in Au foams. <i>Acta Materialia</i> , 2016 , 108, 1-7	8.4 42
56	Atomistic studies of hydrogen effects on grain boundary structure and deformation response in FCC Ni. <i>Computational Materials Science</i> , 2016 , 122, 92-101	3.2 30
55	Molecular dynamics study of deformation and fracture in a tantalum nano-crystalline thin film. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 045010	2 21
54	Non-planar grain boundary structures in fcc metals and their role in nano-scale deformation mechanisms. <i>Philosophical Magazine</i> , 2014 , 94, 152-173	1.6 21
53	Atomistic simulations of metallic microstructures. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 284-297	12 52
52	Mechanical response of nanoporous gold. <i>Acta Materialia</i> , 2013 , 61, 3249-3256	8.4 114
51	Micromechanics of dislocation channeling in intergranular stress corrosion crack nucleation. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 134-142	12 35
50	The role of confinement on stress-driven grain boundary motion in nanocrystalline aluminum thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 124313	2.5 22
49	Mechanical stability of nanoporous metals with small ligament sizes. <i>Scripta Materialia</i> , 2009 , 61, 497-499	9.6 88
48	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435-3460	24
47	Effects of Microalloying on the Mobility and Mechanical Response of Interfaces in Nanocrystalline Cu. <i>Materials Science Forum</i> , 2009 , 633-634, 21-30	0.4 4
46	Atomistic simulations in the Fe-C system. <i>Computational Materials Science</i> , 2009 , 45, 550-560	3.2 86
45	Nanoindentation of thin films: Simulations and experiments. <i>Journal of Materials Research</i> , 2009 , 24, 1135-1141	2.5 16
44	Fivefold twin formation during annealing of nanocrystalline Cu. <i>Scripta Materialia</i> , 2008 , 59, 1267-1270	5.6 39
43	Size effects in indentation response of thin films at the nanoscale: A molecular dynamics study. <i>International Journal of Plasticity</i> , 2008 , 24, 2016-2031	7.6 73

42	Strain-driven grain boundary motion in nanocrystalline materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 33-40	5.3	61
41	Crack-Tip Deformation Mechanisms in α -Fe and Binary Fe Alloys: An Atomistic Study on Single Crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2191-2202	2.3	37
40	Linear grain growth kinetics and rotation in nanocrystalline Ni. <i>Physical Review Letters</i> , 2007 , 98, 165502	7.4	56
39	Annealing twins in nanocrystalline fcc metals: A molecular dynamics simulation. <i>Physical Review B</i> , 2007 , 75,	3.3	31
38	Strain-induced grain growth and rotation in nickel nanowires. <i>Physical Review B</i> , 2007 , 75,	3.3	49
37	Multiscale modeling of deformation and fracture in metallic materials 2007 , 369-390		
36	Grain boundary migration during room temperature deformation of nanocrystalline Ni. <i>Scripta Materialia</i> , 2006 , 55, 695-698	5.6	134
35	The role of partial grain boundary dislocations in grain boundary sliding and coupled grain boundary motion. <i>Journal of Materials Science</i> , 2006 , 41, 7741-7746	4.3	30
34	Improving the ductility of nanocrystalline bcc metals. <i>Nano Letters</i> , 2005 , 5, 2403-7	11.5	28
33	Plastic deformation mechanisms in nanocrystalline columnar grain structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 412, 316-322	5.3	61
32	An atomistic investigation of elastic and plastic properties of Au nanowires. <i>Jom</i> , 2005 , 57, 62-66	2.1	59
31	Atomistic simulation of grain boundary diffusion mechanisms in B2 NiAl. <i>Intermetallics</i> , 2004 , 12, 937-943	3.5	4
30	Atomistic Simulation of Dislocation Interactions with a Σ 5 (210) Grain Boundary during Nanoindentation of Ni. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 258		4
29	Bulk and intergranular fracture behaviour of NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1425-1444		20
28	Dr Eduardo Savino (1945-1998). <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1297-1298		
27	Atomistic theory and computer simulation of grain boundary structure and diffusion. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, R497-R516	1.8	31
26	Atomistic simulation of fracture in TiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 951-955	2.3	3
25	Atomistic simulation of fracture in TiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 951-955	2.3	10

24	Atomistic simulation of [001] symmetrical tilt grain boundaries in NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 78, 29-56		32
23	Atomistic simulation of dislocation core configurations in TiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 78, 389-404		21
22	Atomistic simulation of point defects and diffusion in B2 NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997 , 75, 169-185		82
21	Atomistic simulation of point defects and diffusion in B2 NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997 , 75, 187-199		44
20	Monte Carlo simulation of correlation effects in a random bcc alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997 , 75, 201-219		11
19	Interatomic potentials for ternary Nb - Ti - Al alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 23-32	2	29
18	Atomistic Structure of High Index Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 440, 39		
17	Atomistic Study of Crack Propagation and Dislocation Emission in Cu-Ni Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 457, 315		2
16	Atomistic Simulation of Grain Boundary Structure and Diffusion in B2 NiAl. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 458, 21		2
15	Atomistic Aspects of Crack Propagation Along High Angle Grain Boundaries. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 399		
14	Molecular statics simulation of fracture in α -iron. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 473-492	2	93
13	Stoichiometry effects on core structure and mobility in B2 NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 72, 1671-1696		8
12	Representation of Finite Cracks by Dislocation Pileups: An Application to Atomic Simulation of Fracture. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 408, 217		1
11	Representation of Finite Cracks by Dislocation Pileups: An Application to Atomic Simulation of Fracture. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 409, 133		2
10	Molecular Statics Simulation of Crack Propagation in α -Fe Using EAM Potentials. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 409, 75		14
9	Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials Research</i> , 1994 , 9, 875-883	2.5	24
8	Atomistic Simulation of Dislocation Motion as Determined by Core Structure. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 350, 293		5
7	Effects of Angular Dependent Terms in the Interatomic Potential on Defect Properties in TiAl. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 364, 151		3

6	Possibilities of Slip Modification in B2 NiAl. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 435	0
5	Structure and Energetics of Vacancies, Antisites and Divacancy Complexes in the Ni-Al System. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 305	1
4	Simple Flexible Boundary if Conditions for the Atomistic Simulation of Dislocation Core Structure and Motion. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 291, 85	7
3	Bulk and intergranular fracture behaviour of NiAl	2
2	Atomistic simulation of dislocation core configurations in TiAl	2
1	Influence of compositional complexity on species diffusion behavior in high-entropy solid-solution alloys. <i>Journal of Materials Research</i> , 1	2.5 0