Diana Farkas

List of Publications by Citations

Source: https://exaly.com/author-pdf/9084649/diana-farkas-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 27 h-index g-index

77 2,256 4.3 5.53 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
77	Grain boundary migration during room temperature deformation of nanocrystalline Ni. <i>Scripta Materialia</i> , 2006 , 55, 695-698	5.6	134
76	Mechanical response of nanoporous gold. <i>Acta Materialia</i> , 2013 , 61, 3249-3256	8.4	114
75	Molecular statics simulation of fracture in -iron. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 473-492	2	93
74	Mechanical stability of nanoporous metals with small ligament sizes. Scripta Materialia, 2009, 61, 497-49	99.6	88
73	Atomistic simulations in the Fe® system. Computational Materials Science, 2009, 45, 550-560	3.2	86
72	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
71	Model interatomic potentials and lattice strain in a high-entropy alloy. <i>Journal of Materials Research</i> , 2018 , 33, 3218-3225	2.5	81
70	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
69	Strain-driven grain boundary motion in nanocrystalline materials. <i>Materials Science & Materials Science & Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 33-40	5.3	61
68	Plastic deformation mechanisms in nanocrystalline columnar grain structures. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 412, 316-322	5.3	61
67	An atomistic investigation of elastic and plastic properties of Au nanowires. <i>Jom</i> , 2005 , 57, 62-66	2.1	59
66	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
65	Linear grain growth kinetics and rotation in nanocrystalline Ni. <i>Physical Review Letters</i> , 2007 , 98, 165502	27.4	56
64	Atomistic simulations of metallic microstructures. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 284-297	12	52
63	Strain-induced grain growth and rotation in nickel nanowires. <i>Physical Review B</i> , 2007 , 75,	3.3	49
62	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
61	Hardening under compression in Au foams. <i>Acta Materialia</i> , 2016 , 108, 1-7	8.4	42

60	Fivefold twin formation during annealing of nanocrystalline Cu. <i>Scripta Materialia</i> , 2008 , 59, 1267-1270	5.6	39
59	Crack-Tip Deformation Mechanisms in 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
58	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
57	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
56	Annealing twins in nanocrystalline fcc metals: A molecular dynamics simulation. <i>Physical Review B</i> , 2007 , 75,	3.3	31
55	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
54	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
53	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
52	Interatomic potentials for ternary Nb - Ti - Al alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 23-32	2	29
51	Improving the ductility of nanocrystalline bcc metals. <i>Nano Letters</i> , 2005 , 5, 2403-7	11.5	28
50	Improving the ductility of nanocrystalline bcc metals. <i>Nano Letters</i> , 2005 , 5, 2403-7 Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435-		28
50	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435-Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials</i>	-3 <u>4</u> 60	24
50	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435-Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials Research</i> , 1994 , 9, 875-883 The role of confinement on stress-driven grain boundary motion in nanocrystalline aluminum thin	-3 :46 0	24
50 49 48	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435-Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials Research</i> , 1994 , 9, 875-883 The role of confinement on stress-driven grain boundary motion in nanocrystalline aluminum thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 124313 Molecular dynamics study of deformation and fracture in a tantalum nano-crystalline thin film.	-3 45 0 2.5 2.5	24 24 22
50 49 48 47	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435- Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials Research</i> , 1994 , 9, 875-883 The role of confinement on stress-driven grain boundary motion in nanocrystalline aluminum thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 124313 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 Non-planar grain boundary structures in fcc metals and their role in nano-scale deformation	-3.450 2.5 2.5	24 24 22 21
50 49 48 47 46	Tensile deformation of fcc Ni as described by an EAM potential. <i>Philosophical Magazine</i> , 2009 , 89, 3435- Atomistic structure and lattice effects of vacancies in Ni-Al intermetallics. <i>Journal of Materials Research</i> , 1994 , 9, 875-883 The role of confinement on stress-driven grain boundary motion in nanocrystalline aluminum thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 124313 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 Non-planar grain boundary structures in fcc metals and their role in nano-scale deformation mechanisms. <i>Philosophical Magazine</i> , 2014 , 94, 152-173 Atomistic simulation of dislocation core configurations in TiAl. <i>Philosophical Magazine A: Physics of</i>	-3.450 2.5 2.5	2424222121

42	Atomistic modeling of dislocations in a random quinary high-entropy alloy. <i>Computational Materials Science</i> , 2020 , 173, 109366	3.2	17
41	Mechanical Response of Au Foams of Varying Porosity from Atomistic Simulations. <i>Jom</i> , 2018 , 70, 2185	5-2191	16
40	Nanoindentation of thin films: Simulations and experiments. <i>Journal of Materials Research</i> , 2009 , 24, 1135-1141	2.5	16
39	Connecting interatomic potential characteristics with deformation response in FCC materials. <i>Computational Materials Science</i> , 2018 , 147, 18-27	3.2	15
38	Molecular Statics Simulation of Crack Propagation in ⊕e Using EAM Potentials. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 409, 75		14
37	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
36	Model interatomic potentials for FeNitroAl high-entropy alloys. <i>Journal of Materials Research</i> , 2020 , 35, 3031-3040	2.5	14
35	Grain boundary structure in high-entropy alloys. <i>Journal of Materials Science</i> , 2020 , 55, 9173-9183	4.3	12
34	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
33	Indentation response of nanoporous gold from atomistic simulations. <i>Journal of Materials Research</i> , 2018 , 33, 1382-1390	2.5	10
32	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
31	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
30	Fracture in nanoporous gold: An integrated computational and experimental study. <i>Acta Materialia</i> , 2020 , 185, 257-270	8.4	10
29	Deformation response of grain boundary networks at high temperature. <i>Journal of Materials Science</i> , 2018 , 53, 5696-5705	4.3	10
28	Mechanical response of a bicontinuous coppertholybdenum nano-composite: Experiments and simulations. <i>Acta Materialia</i> , 2019 , 178, 79-89	8.4	9
27	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
26	Dislocation content in random high angle grain boundaries. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 045005	2	7
25	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

24	Atomistic Simulation of Dislocation Motion as Determined by Core Structure. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 350, 293	5
23	Deformation behavior of a model high entropy alloy from atomistic simulations. <i>Materials Science & Materials Science and Processing A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 141124 5.3	5
22	Effects of Microalloying on the Mobility and Mechanical Response of Interfaces in Nanocrystalline Cu. <i>Materials Science Forum</i> , 2009 , 633-634, 21-30	4
21	Atomistic simulation of grain boundary diffusion mechanisms in B2 NiAl. <i>Intermetallics</i> , 2004 , 12, 937-943.5	4
20	Atomistic Simulation of Dislocation Interactions with a 🗦 5 (210) Grain Boundary during Nanoindentation of Ni. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 258	4
19	The Mechanical Response of Nanoporous Gold and Silver Foams with Varying Composition and Surface Segregation. <i>Acta Materialia</i> , 2021 , 203, 116445	4
18	Atomistic simulation of fracture in TiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 951-955	3
17	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
16	Atomistic Study of Crack Propagation and Dislocation Emission in Cu-Ni Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 457, 315	2
15	Atomistic Simulation of Grain Boundary Structure and Diffusion in B2 NiAl. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 458, 21	2
14	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
13	Bulk and intergranular fracture behaviour of NiAl	2
12	Atomistic simulation of dislocation core configurations in TiAl	2
11	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 ³	2
10	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
9	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
8	Deformation response of high entropy alloy nanowires. <i>Journal of Materials Science</i> , 2021 , 56, 16447-16463	1
7	Possibilities of Slip Modification in B2 NiAl. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 435	O

- Dislocation emission and propagation under a nano-indenter in a model high entropy alloy. Computational Materials Science, **2022**, 205, 111218
- 3.2 0
- Influence of compositional complexity on species diffusion behavior in high-entropy solid-solution alloys. *Journal of Materials Research*,1
- 2.5 0
- Dr Eduardo Savino (1945¶998). *Philosophical Magazine A: Physics of Condensed Matter, Structure,*Defects and Mechanical Properties, **2000**, 80, 1297-1298
- Atomistic Structure of High Index Surfaces. *Materials Research Society Symposia Proceedings*, **1996**, 440, 39
- Atomistic Aspects of Crack Propagation Along High Angle Grain Boundaries. *Materials Research Society Symposia Proceedings*, **1996**, 460, 399
- Multiscale modeling of deformation and fracture in metallic materials **2007**, 369-390