Ioannis Mastorakos

List of Publications by Citations

Source: https://exaly.com/author-pdf/2798003/ioannis-mastorakos-publications-by-citations.pdf

Version: 2024-04-24

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.

26 papers 273 ph-index 27 g-index 27 ext. papers 210 ext. citations 226 avg, IF 16 g-index 2.6 L-index

#	Paper	IF	Citations
26	Deformation mechanisms and strength in nanoscale multilayer metallic composites with coherent and incoherent interfaces. <i>Applied Physics Letters</i> , 2009 , 94, 173114	3.4	68
25	A dislocation-density-based 3D crystal plasticity model for pure aluminum. <i>Acta Materialia</i> , 2009 , 57, 5936-5946	8.4	47
24	Size-dependent strength in nanolaminate metallic systems. <i>Journal of Materials Research</i> , 2011 , 26, 117	9 <u>≥.5</u> 187	, 7 31
23	Effect of Interfaces in the Work Hardening of Nanoscale Multilayer Metallic Composites During Nanoindentation: A Molecular Dynamics Investigation. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013 , 135,	1.8	18
22	The void nucleation strengths of the CuNiNb- based nanoscale metallic multilayers under high strain rate tensile loadings. <i>Computational Materials Science</i> , 2014 , 82, 435-441	3.2	17
21	Precipitate strengthening in nanostructured metallic material composites. <i>Philosophical Magazine Letters</i> , 2012 , 92, 597-607	1	15
20	A mechanistic-based healing model for self-healing glass seals used in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012 , 218, 445-454	8.9	12
19	Numerical simulation of interface crack in thin films. <i>International Journal of Fracture</i> , 1999 , 98, 195-207	2.3	12
18	The effect of interfacial imperfections on plastic deformation in nanoscale metallic multilayer composites. <i>Computational Materials Science</i> , 2014 , 86, 118-123	3.2	9
17	Strength and plastic deformation behavior of nanolaminate composites with pre-existing dislocations. <i>Computational Materials Science</i> , 2017 , 138, 42-48	3.2	9
16	A multiscale approach to study the effect of chromium and nickel concentration in the hardening of iron alloys. <i>Journal of Nuclear Materials</i> , 2014 , 449, 101-110	3.3	8
15	Multiscale modeling of copper and copper/nickel nanofoams under compression. <i>Computational Materials Science</i> , 2020 , 172, 109290	3.2	5
14	Effects of Defects on Hydrogen Diffusion in NbC. <i>Applied Surface Science</i> , 2017 , 401, 198-205	6.7	3
13	Deformation behavior of corellhell nanowire structures with coherent and semi-coherent interfaces. <i>Journal of Materials Research</i> , 2019 , 34, 1093-1102	2.5	3
12	Investigation of dislocation patterning by stochastic integration of dislocation trajectories. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2005 , 13, 671-681	2	3
11	Synthesis, microstructure, and mechanical properties of polycrystalline Cu nano-foam. <i>MRS Advances</i> , 2018 , 3, 469-475	0.7	3
10	The effect of size and composition on the strength and hardening of CuNi/Nb nanoscale metallic composites. <i>Journal of Materials Research</i> , 2017 , 32, 2542-2550	2.5	2

LIST OF PUBLICATIONS

9	Phase Field Crystal Simulation of Grain Growth in BCC Metals during Additive Manufacturing. <i>MRS Advances</i> , 2017 , 2, 887-896	0.7	2	
8	Two- and Three-Dimensional EBSD Measurement of Dislocation Density in Deformed Structures. <i>Solid State Phenomena</i> , 2010 , 160, 17-22	0.4	2	
7	Computer Simulation of Discrete Crack Propagation. <i>Journal of the Mechanical Behavior of Materials</i> , 2003 , 14, 9-22	1.9	2	
6	Plastic Behavior of Aluminum and Dislocation Patterning Based on Continuum Dislocation Dynamic (CDD). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 400-409	2.3	2	
5	A Multiscale Approach to Predict the Mechanical Properties of Copper Nanofoams. <i>MRS Advances</i> , 2019 , 4, 293-298	0.7	0	
4	Modelling crushing crab predation on bivalve prey using finite element analysis. <i>Historical Biology</i> , 2019 , 1-10	1.1	O	
3	Development of a 3D Crystal Plasticity Model that Tracks Dislocation Density Evolution. <i>Solid State Phenomena</i> , 2010 , 160, 57-62	0.4		
2	Correlation between complexity and mechanical recovery of metallic nanoarchitecture structures. <i>MRS Communications</i> , 2021 , 11, 510-516	2.7		
1	Composition influence on edge dislocation mobility in an FCC high-entropy alloy. MRS Advances,1	0.7		