

Yi Cui

List of Publications by Year in descending order

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17
papers

194
citations

1039880

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1058333

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all docs

17
docs citations

17
times ranked

96
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulation of the influence of elliptical void interaction on the tensile behavior of aluminum. <i>Computational Materials Science</i> , 2015, 108, 103-113.	1.4	29
2	Material transport via the emission of shear loops during void growth: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	22
3	High-strain-rate void growth in high entropy alloys: Suppressed dislocation emission=suppressed void growth. <i>Scripta Materialia</i> , 2020, 185, 12-18.	2.6	18
4	Void initiation from interfacial debonding of spherical silicon particles inside a silicon-copper nanocomposite: a molecular dynamics study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 025007.	0.8	17
5	Molecular dynamics modeling on the role of initial void geometry in a thin aluminum film under uniaxial tension. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 085011.	0.8	15
6	Mass transfer and morphology change via dislocation emission in a macroporous FCC metal. <i>Materials Letters</i> , 2019, 247, 67-70.	1.3	13
7	Fracture of void-embedded high-entropy-alloy films: A comprehensive atomistic study. <i>Materialia</i> , 2020, 12, 100790.	1.3	13
8	Fundamental insights into the mass transfer via full dislocation loops due to alternative surface cuts. <i>International Journal of Solids and Structures</i> , 2019, 161, 42-54.	1.3	12
9	Nanotwinning and tensile behavior in cold-welded high-entropy-alloy nanowires. <i>Nanotechnology</i> , 2021, 32, 315716.	1.3	9
10	Relief of strain hardening in deformed Inconel 718 by high-density pulsed electric current. <i>Journal of Materials Science</i> , 2021, 56, 16686-16696.	1.7	9
11	New mechanisms of helical dislocation formation via the pinch-off process near a nano-inhomogeneity. <i>Computational Materials Science</i> , 2018, 155, 400-409.	1.4	8
12	True origin of the size effect in cold-welded metallic nanocrystals. <i>International Journal of Mechanical Sciences</i> , 2020, 187, 106102.	3.6	7
13	Atomistic treatment of periodic gold nanowire array nanofasteners under shear loading. <i>Nanotechnology</i> , 2020, 31, 105704.	1.3	6
14	The deformation mechanism in cold-welded gold nanowires due to dislocation emission. <i>Computational Materials Science</i> , 2021, 188, 110214.	1.4	6
15	Simulation of mechanical performance of nanoporous FCC copper under compression with pores mimicking several crystalline arrays. <i>Journal of Applied Physics</i> , 2017, 122, 075102.	1.1	5
16	Investigating size dependence in nanovoid-embedded high-entropy-alloy films under biaxial tension. <i>Archive of Applied Mechanics</i> , 2023, 93, 335-353.	1.2	5
17	Evaluation of Electric Current-Induced Improvement of Fracture Characteristics in SUS316. <i>Materials Transactions</i> , 2021, 62, 748-755.	0.4	0