Yi Cui

List of Publications by Citations

17 papers	131 citations	7 h-index	11 g-index
17 ext. papers	160 ext. citations	3.1 avg, IF	3.55 L-index

#	Paper	IF	Citations
17	Molecular dynamics simulation of the influence of elliptical void interaction on the tensile behavior of aluminum. *Computational Materials Science*, **2015**, 108, 103-113	3.2	28
16	Material transport via the emission of shear loops during void growth: A molecular dynamics study. *Journal of Applied Physics*, **2016**, 119, 225102	2.5	19
15	Molecular dynamics modeling on the role of initial void geometry in a thin aluminum film under uniaxial tension. *Modelling and Simulation in Materials Science and Engineering*, **2015**, 23, 085011	2	13
14	Mass transfer and morphology change via dislocation emission in a macroporous FCC metal. *Materials Letters*, **2019**, 247, 67-70	3.3	11
13	Fundamental insights into the mass transfer via full dislocation loops due to alternative surface cuts. *International Journal of Solids and Structures*, **2019**, 161, 42-54	3.1	11
12	Void initiation from interfacial debonding of spherical silicon particles inside a silicon-copper nanocomposite: a molecular dynamics study. *Modelling and Simulation in Materials Science and Engineering*, **2017**, 25, 025007	2	9
11	High-strain-rate void growth in high entropy alloys: Suppressed dislocation emission = suppressed void growth. *Scripta Materialia*, **2020**, 185, 12-18	5.6	9
10	New mechanisms of helical dislocation formation via the pinch-off process near a nano-inhomogeneity. *Computational Materials Science*, **2018**, 155, 400-409	3.2	5
9	Simulation of mechanical performance of nanoporous FCC copper under compression with pores mimicking several crystalline arrays. *Journal of Applied Physics*, **2017**, 122, 075102	2.5	4
8	Atomistic treatment of periodic gold nanowire array nanofasteners under shear loading. *Nanotechnology*, **2019**, 31, 105704	3.4	4
7	True origin of the size effect in cold-welded metallic nanocrystals. *International Journal of Mechanical Sciences*, **2020**, 187, 106102	5.5	4
6	Fracture of void-embedded high-entropy-alloy films: A comprehensive atomistic study. *Materialia*, **2020**, 12, 100790	3.2	4
5	The deformation mechanism in cold-welded gold nanowires due to dislocation emission. *Computational Materials Science*, **2021**, 188, 110214	3.2	4
4	Nanotwinning and tensile behavior in cold-welded high-entropy-alloy nanowires. *Nanotechnology*, **2021**, 32,	3.4	3
3	Relief of strain hardening in deformed Inconel 718 by high-density pulsed electric current. *Journal of Materials Science*, **2021**, 56, 16686-16696	4.3	3
2	Investigating size dependence in nanovoid-embedded high-entropy-alloy films under biaxial tension. *Archive of Applied Mechanics*,1	2.2	0
1	Evaluation of Electric Current-Induced Improvement of Fracture Characteristics in SUS316. *Materials Transactions*, **2021**, 62, 748-755	1.3	