

Ill Ryu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Dislocation interactions at the grain boundary in FCC bicrystals: An atomistically-informed dislocation dynamics study. <i>Acta Materialia</i> , 2022, 223, 117455.	7.9	27
2	Low-temperature failure mechanism of [001] niobium micropillars under uniaxial tension. <i>Journal of Materials Research</i> , 2021, 36, 2371-2382.	2.6	7
3	Effect of size and orientation on stability of dislocation networks upon torsion loading and unloading in FCC metallic micropillars. <i>Acta Materialia</i> , 2021, 214, 117010.	7.9	5
4	Temperature dependent plasticity in BCC micropillars. <i>Materialia</i> , 2021, 19, 101181.	2.7	4
5	Low-temperature failure mechanism of [001] niobium micropillars under uniaxial tension. <i>Journal of Materials Research</i> , 2021, 36, 1-12.	2.6	0
6	Intrinsic size dependent plasticity in BCC micro-pillars under uniaxial tension and pure torsion. <i>Extreme Mechanics Letters</i> , 2020, 40, 100901.	4.1	11
7	Latent hardening/softening behavior in tension and torsion combined loadings of single crystal FCC micropillars. <i>Acta Materialia</i> , 2020, 190, 58-69.	7.9	13
8	Stacking fault energy-dependent plastic deformation of face-centered-cubic metal nanowires under torsional loading. <i>Extreme Mechanics Letters</i> , 2020, 40, 100895.	4.1	4
9	Anisotropic Size-Dependent Plasticity in Face-Centered Cubic Micropillars Under Torsion. <i>Jom</i> , 2016, 68, 253-260.	1.9	15
10	Stochastic behaviors in plastic deformation of face-centered cubic micropillars governed by surface nucleation and truncated source operation. <i>Acta Materialia</i> , 2015, 95, 176-183.	7.9	51
11	Regulated Breathing Effect of Silicon Negative Electrode for Dramatically Enhanced Performance of Li-ion Battery. <i>Advanced Functional Materials</i> , 2015, 25, 1426-1433.	14.9	149
12	Kinetics and fracture resistance of lithiated silicon nanostructure pairs controlled by their mechanical interaction. <i>Nature Communications</i> , 2015, 6, 7533.	12.8	107
13	Cold-temperature deformation of nano-sized tungsten and niobium as revealed by in-situ nano-mechanical experiments. <i>Science China Technological Sciences</i> , 2014, 57, 652-662.	4.0	39
14	Plasticity of bcc micropillars controlled by competition between dislocation multiplication and depletion. <i>Acta Materialia</i> , 2013, 61, 3233-3241.	7.9	44