Ill Ryu

List of Publications by Year
in descending order

14 papers	476 citations	1040056 9 h-index	1125743 13 g-index
14 all docs	14 docs citations	14 times ranked	894 citing authors

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