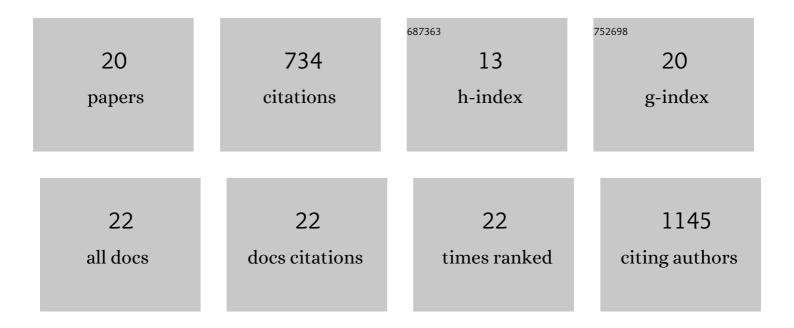
## Subin Lee

List of Publications by Year in descending order

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SUBIN LEE

#	Article	IF	CITATIONS
1	Reversible cyclic deformation mechanism of gold nanowires by twinning–detwinning transition evidenced from in situ TEM. Nature Communications, 2014, 5, 3033.	12.8	137
2	Nanotwin-governed toughening mechanism in hierarchically structured biological materials. Nature Communications, 2016, 7, 10772.	12.8	127
3	FIB-induced dislocations in Al submicron pillars: Annihilation by thermal annealing and effects on deformation behavior. Acta Materialia, 2016, 110, 283-294.	7.9	66
4	Understanding Grain Boundary Electrical Resistivity in Cu: The Effect of Boundary Structure. ACS Nano, 2021, 15, 16607-16615.	14.6	65
5	Role of Graphene in Reducing Fatigue Damage in Cu/Gr Nanolayered Composite. Nano Letters, 2017, 17, 4740-4745.	9.1	63
6	Effect of a high angle grain boundary on deformation behavior of Al nanopillars. Scripta Materialia, 2015, 107, 5-9.	5.2	35
7	Dislocation plasticity in FeCoCrMnNi high-entropy alloy: quantitative insights from <i>in situ</i> transmission electron microscopy deformation. Materials Research Letters, 2020, 8, 216-224.	8.7	35
8	Effect of surface energy on size-dependent deformation twinning of defect-free Au nanowires. Nanoscale, 2015, 7, 15657-15664.	5.6	30
9	Water- and acid-stable self-passivated dihafnium sulfide electride and its persistent electrocatalytic reaction. Science Advances, 2020, 6, eaba7416.	10.3	30
10	Threeâ€Dimensional Nanostructured Indiumâ€Tinâ€Oxide Electrodes for Enhanced Performance of Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2014, 4, 1301566.	19.5	27
11	In-situ observation of the initiation of plasticity by nucleation of prismatic dislocation loops. Nature Communications, 2020, 11, 2367.	12.8	23
12	Comparative study of hydrogen embrittlement resistance between additively and conventionally manufactured 304L austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140499.	5.6	23
13	Fabrication of a Stable New Polymorph Gold Nanowire with Sixfold Rotational Symmetry. Advanced Materials, 2018, 30, e1706261.	21.0	16
14	Effects of Mo on the mechanical behavior of γ/γʹ-strengthened Co-Ti-based alloys. Acta Materialia, 2020, 197, 69-80.	7.9	16
15	Structure and hardness of in situ synthesized nano-oxide strengthened CoCrFeNi high entropy alloy thin films. Scripta Materialia, 2021, 203, 114044.	5.2	12
16	A Study on Dislocation Mechanisms of Toughening in Cu-Graphene Nanolayered Composite. Nano Letters, 2022, 22, 188-195.	9.1	9
17	Orientation-dependent micromechanical behavior of nacre: In situ TEM experiments and finite element simulations. Acta Biomaterialia, 2022, 147, 120-128.	8.3	8
18	Microstructural evolution of a focused ion beam fabricated Mg nanopillar at high temperatures: Defect annihilation and sublimation. Scripta Materialia, 2014, 86, 44-47.	5.2	7

#	Article	IF	CITATIONS
19	Nonclassical Crystallization of an Al <sub>2</sub> O <sub>3</sub> Film by Positively Charged Secondary Nanoparticles during Aerosol Deposition. Crystal Growth and Design, 2021, 21, 7240-7246.	3.0	4
20	Influence of crystal orientation on twinning in austenitic stainless-steel during single micro-asperity tribology and nanoindentation. Wear, 2022, 504-505, 204403.	3.1	1