

Subin Lee

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

734
citations

687363

13
h-index

752698

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22
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docs citations

22
times ranked

1145
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Nonclassical Crystallization of an Al ₂ O ₃ Film by Positively Charged Secondary Nanoparticles during Aerosol Deposition. <i>Crystal Growth and Design</i> , 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. <i>Wear</i> , 2022, 504-505, 204403.	3.1	1