

Yanqing Su

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7559264/yanqing-su-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

686

citations

16

h-index

25

g-index

38

ext. papers

936

ext. citations

5.8

avg, IF

4.87

L-index

#	Paper	IF	Citations
38	Line-length-dependent dislocation glide in refractory multi-principal element alloys. <i>Applied Physics Letters</i> , 2022 , 120, 061901	3.4	1
37	Role of layer thickness and dislocation distribution in confined layer slip in nanolaminated Nb. <i>International Journal of Plasticity</i> , 2022 , 152, 103239	7.6	0
36	Transitions in the morphology and critical stresses of gliding dislocations in multiprincipal element alloys. <i>Physical Review Materials</i> , 2022 , 6,	3.2	1
35	On calculations of basic structural parameters in multi-principal element alloys using small atomistic models. <i>Computational Materials Science</i> , 2022 , 202, 110942	3.2	5
34	Energetically favorable dislocation/nanobubble bypass mechanism in irradiation conditions. <i>Acta Materialia</i> , 2022 , 230, 117849	8.4	0
33	Generalized stacking fault energies and Peierls stresses in refractory body-centered cubic metals from machine learning-based interatomic potentials. <i>Computational Materials Science</i> , 2021 , 192, 110364	3.2	16
32	Effect of interface structure on dislocation glide behavior in nanolaminates. <i>Journal of Materials Research</i> , 2021 , 36, 2802-2815	2.5	2
31	Local slip resistances in equal-molar MoNbTi multi-principal element alloy. <i>Acta Materialia</i> , 2021 , 202, 68-79	8.4	25
30	Frank-Read source operation in six body-centered cubic refractory metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 141, 104017	5	18
29	Atomic-level calculations and experimental study of dislocations in InSb. <i>Journal of Applied Physics</i> , 2020 , 127, 135104	2.5	3
28	Atomistic calculations of the generalized stacking fault energies in two refractory multi-principal element alloys. <i>Intermetallics</i> , 2020 , 124, 106844	3.5	23
27	Elastic constants of pure body-centered cubic Mg in nanolaminates. <i>Computational Materials Science</i> , 2020 , 174, 109501	3.2	7
26	Effects of lattice distortion and chemical short-range order on the mechanisms of deformation in medium entropy alloy CoCrNi. <i>Acta Materialia</i> , 2020 , 199, 352-369	8.4	74
25	Multiplicity of dislocation pathways in a refractory multiprincipal element alloy. <i>Science</i> , 2020 , 370, 95-101	33.3	65
24	Achieving room-temperature brittle-to-ductile transition in ultrafine layered Fe-Al alloys. <i>Science Advances</i> , 2020 , 6,	14.3	14
23	The effect of local chemical ordering on Frank-Read source activation in a refractory multi-principal element alloy. <i>International Journal of Plasticity</i> , 2020 , 134, 102850	7.6	17
22	Density functional theory calculations of generalized stacking fault energy surfaces for eight face-centered cubic transition metals. <i>Journal of Applied Physics</i> , 2019 , 126, 105112	2.5	19

21	Ab initio-informed phase-field modeling of dislocation core structures in equal-molar CoNiRu multi-principal element alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 084001	2	15
20	Modeling dislocations with arbitrary character angle in face-centered cubic transition metals using the phase-field dislocation dynamics method with full anisotropic elasticity. <i>Mechanics of Materials</i> , 2019 , 139, 103200	3.3	18
19	Deformation Mechanisms in Nanotwinned Tungsten Nanopillars: Effects of Coherent Twin Boundary Spacing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700399	2.5	11
18	Deformation of periodic nanovoid structures in Mg single crystals. <i>Materials Research Express</i> , 2018 , 5, 016523	1.7	12
17	Dislocation nucleation from symmetric tilt grain boundaries in body-centered cubic vanadium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1185-1189	2.3	19
16	Concurrent atomistic-continuum simulations of uniaxial compression of gold nano/submicropillars. <i>Philosophical Magazine Letters</i> , 2018 , 98, 173-182	1	7
15	The effect of nonlinear decompression history on H ₂ O/CO ₂ vesiculation in rhyolitic magmas. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 2712-2723	3.6	4
14	Plastic deformation of Cu single crystals containing an elliptic cylindrical void. <i>Materials Letters</i> , 2017 , 193, 283-287	3.3	31
13	An atomistic study of the deformation behavior of tungsten nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	12
12	Nanovoid growth in BCCFe: influences of initial void geometry. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016 , 24, 085015	2	12
11	Bubble accumulation and its role in the evolution of magma reservoirs in the upper crust. <i>Nature</i> , 2016 , 532, 492-5	50.4	113
10	On the role of initial void geometry in plastic deformation of metallic thin films: A molecular dynamics study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 153-164	5.3	26
9	The role of crystallization-driven exsolution on the sulfur mass balance in volcanic arc magmas. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 5624-5640	3.6	8
8	A pore-scale investigation of the dynamic response of saturated porous media to transient stresses. <i>Geofluids</i> , 2015 , 15, 11-23	1.5	7
7	A new bubble dynamics model to study bubble growth, deformation, and coalescence. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 216-239	3.6	18
6	Comparison between magnetic coplanarity and MVA methods in determining the normal of Venusian bow shock. <i>Science Bulletin</i> , 2013 , 58, 2469-2472		2
5	Particle acceleration and generation of diffuse superthermal ions at a quasi-parallel collisionless shock: Hybrid simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
4	Ion dynamics at supercritical quasi-parallel shocks: Hybrid simulations. <i>Physics of Plasmas</i> , 2012 , 19, 092108		16

3	Atomic collision cascades on void evolution in vanadium. <i>Radiation Effects and Defects in Solids</i> , 2012 , 167, 12-25	0.9	13
2	Cross-Shock Electrostatic Potential and Ion Reflection in Quasi-Parallel Supercritical Collisionless Shocks. <i>Chinese Physics Letters</i> , 2012 , 29, 089601	1.8	1
1	An analysis on nanovoid growth in body-centered cubic single crystalline vanadium. <i>Computational Materials Science</i> , 2011 , 50, 2411-2421	3.2	31