Yanqing Su

List of Publications by Citations

38	686	16	25
papers	citations	h-index	g-index
38	936	5.8	4.87
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
38	Bubble accumulation and its role in the evolution of magma reservoirs in the upper crust. *Nature*, **2016**, 532, 492-5	50.4	113
37	Effects of lattice distortion and chemical short-range order on the mechanisms of deformation in medium entropy alloy CoCrNi. *Acta Materialia*, **2020**, 199, 352-369	8.4	74
36	Multiplicity of dislocation pathways in a refractory multiprincipal element alloy. *Science*, **2020**, 370, 95-101	33.3	65
35	Plastic deformation of Cu single crystals containing an elliptic cylindrical void. *Materials Letters*, **2017**, 193, 283-287	3.3	31
34	An analysis on nanovoid growth in body-centered cubic single crystalline vanadium. *Computational Materials Science*, **2011**, 50, 2411-2421	3.2	31
33	On the role of initial void geometry in plastic deformation of metallic thin films: A molecular dynamics study. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 678, 153-164	5.3	26
32	Local slip resistances in equal-molar MoNbTi multi-principal element alloy. *Acta Materialia*, **2021**, 202, 68-79	8.4	25
31	Atomistic calculations of the generalized stacking fault energies in two refractory multi-principal element alloys. *Intermetallics*, **2020**, 124, 106844	3.5	23
30	Particle acceleration and generation of diffuse superthermal ions at a quasi-parallel collisionless shock: Hybrid simulations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
29	Density functional theory calculations of generalized stacking fault energy surfaces for eight face-centered cubic transition metals. *Journal of Applied Physics*, **2019**, 126, 105112	2.5	19
28	Dislocation nucleation from symmetric tilt grain boundaries in body-centered cubic vanadium. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 1185-1189	2.3	19
27	Frank-Read source operation in six body-centered cubic refractory metals. *Journal of the Mechanics and Physics of Solids*, **2020**, 141, 104017	5	18
26	Modeling dislocations with arbitrary character angle in face-centered cubic transition metals using the phase-field dislocation dynamics method with full anisotropic elasticity. *Mechanics of Materials*, **2019**, 139, 103200	3.3	18
25	A new bubble dynamics model to study bubble growth, deformation, and coalescence. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 216-239	3.6	18
24	The effect of local chemical ordering on Frank-Read source activation in a refractory multi-principal element alloy. *International Journal of Plasticity*, **2020**, 134, 102850	7.6	17
23	Ion dynamics at supercritical quasi-parallel shocks: Hybrid simulations. *Physics of Plasmas*, **2012**, 19, 092108	2.2	16
22	Generalized stacking fault energies and Peierls stresses in refractory body-centered cubic metals from machine learning-based interatomic potentials. *Computational Materials Science*, **2021**, 192, 110364	3.2	16

21	Ab initio-informed phase-field modeling of dislocation core structures in equal-molar CoNiRu multi-principal element alloys. *Modelling and Simulation in Materials Science and Engineering*, **2019**, 27, 084001	2	15
20	Achieving room-temperature brittle-to-ductile transition in ultrafine layered Fe-Al alloys. *Science Advances*, **2020**, 6,	14.3	14
19	Atomic collision cascades on void evolution in vanadium. *Radiation Effects and Defects in Solids*, **2012**, 167, 12-25	0.9	13
18	Deformation of periodic nanovoid structures in Mg single crystals. *Materials Research Express*, **2018**, 5, 016523	1.7	12
17	Nanovoid growth in BCC Fe: influences of initial void geometry. *Modelling and Simulation in Materials Science and Engineering*, **2016**, 24, 085015	2	12
16	An atomistic study of the deformation behavior of tungsten nanowires. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	12
15	Deformation Mechanisms in Nanotwinned Tungsten Nanopillars: Effects of Coherent Twin Boundary Spacing. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1700399	2.5	11
14	The role of crystallization-driven exsolution on the sulfur mass balance in volcanic arc magmas. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 5624-5640	3.6	8
13	A pore-scale investigation of the dynamic response of saturated porous media to transient stresses. *Geofluids*, **2015**, 15, 11-23	1.5	7
12	Elastic constants of pure body-centered cubic Mg in nanolaminates. *Computational Materials Science*, **2020**, 174, 109501	3.2	7
11	Concurrent atomistic-continuum simulations of uniaxial compression of gold nano/submicropillars. *Philosophical Magazine Letters*, **2018**, 98, 173-182	1	7
10	On calculations of basic structural parameters in multi-principal element alloys using small atomistic models. *Computational Materials Science*, **2022**, 202, 110942	3.2	5
9	The effect of nonlinear decompression history on H2O/CO2 vesiculation in rhyolitic magmas. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 2712-2723	3.6	4
8	Atomic-level calculations and experimental study of dislocations in InSb. *Journal of Applied Physics*, **2020**, 127, 135104	2.5	3
7	Comparison between magnetic coplanarity and MVA methods in determining the normal of Venusian bow shock. *Science Bulletin*, **2013**, 58, 2469-2472		2
6	Effect of interface structure on dislocation glide behavior in nanolaminates. *Journal of Materials Research*, **2021**, 36, 2802-2815	2.5	2
5	Cross-Shock Electrostatic Potential and Ion Reflection in Quasi-Parallel Supercritical Collisionless Shocks. *Chinese Physics Letters*, **2012**, 29, 089601	1.8	1
4	Line-length-dependent dislocation glide in refractory multi-principal element alloys. *Applied Physics Letters*, **2022**, 120, 061901	3.4	1

3	Transitions in the morphology and critical stresses of gliding dislocations in multiprincipal element alloys. *Physical Review Materials*, **2022**, 6,	3.2	1
2	Role of layer thickness and dislocation distribution in confined layer slip in nanolaminated Nb. *International Journal of Plasticity*, **2022**, 152, 103239	7.6	0
1	Energetically favorable dislocation/nanobubble bypass mechanism in irradiation conditions. *Acta Materialia*, **2022**, 230, 117849	8.4	0