Wu-Rong Jian

List of Publications by Year
in descending order

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31	905	394286 19	454834 30
papers	citations	h-index	g-index

31	31	31	516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shock-induced amorphization in medium entropy alloy CoCrNi. Scripta Materialia, 2022, 209, 114379.	2.6	33
2	Atomistic simulations of the local slip resistances in four refractory multi-principal element alloys. International Journal of Plasticity, 2022, 149, 103157.	4.1	28
3	Line-length-dependent dislocation glide in refractory multi-principal element alloys. Applied Physics Letters, 2022, 120, .	1.5	13
4	Role of layer thickness and dislocation distribution in confined layer slip in nanolaminated Nb. International Journal of Plasticity, 2022, 152, 103239.	4.1	17
5	Energetically favorable dislocation/nanobubble bypass mechanism in irradiation conditions. Acta Materialia, 2022, 230, 117849.	3.8	5
6	Local slip resistances in equal-molar MoNbTi multi-principal element alloy. Acta Materialia, 2021, 202, 68-79.	3.8	50
7	On the significance of model design in atomistic calculations of the Peierls stress in Nb. Computational Materials Science, 2021, 188, 110150.	1.4	15
8	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.	1.4	34
9	Effect of interface structure on dislocation glide behavior in nanolaminates. Journal of Materials Research, 2021, 36, 2802-2815.	1.2	8
10	Atomic-Scale Hidden Point-Defect Complexes Induce Ultrahigh-Irradiation Hardening in Tungsten. Nano Letters, 2021, 21, 5798-5804.	4.5	21
11	Role of local chemical fluctuations in the melting of medium entropy alloy CoCrNi. Applied Physics Letters, 2021, 119, .	1.5	13
12	Role of local chemical fluctuations in the shock dynamics of medium entropy alloy CoCrNi. Acta Materialia, 2021, 221, 117380.	3.8	63
13	The toughening mechanism and spatialâ€“temporal evolution of shear bands at different strain rates in Vit-1 metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138855.	2.6	9
14	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.	3.8	213
15	Strengthening and toughening mechanisms of metallic glass nanocomposites via graphene nanoplatelets. Journal of Non-Crystalline Solids, 2020, 546, 120284.	1.5	6
16	Atomistic simulations of dynamics of an edge dislocation and its interaction with a void in copper: a comparative study. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 045004.	0.8	30
17	Layer thickness effects on the strengthening and toughening mechanisms in metallic glass-graphene nanolaminates. Computational Materials Science, 2020, 177, 109536.	1.4	18
18	Atomistic calculations of the generalized stacking fault energies in two refractory multi-principal element alloys. Intermetallics, 2020, 124, 106844.	1.8	40

#	Article	IF	Citations
19	Size-dependent vibration analysis of carbon nanotubes. Journal of Materials Research, 2019, 34, 2148-2160.	1.2	1
20	Tensile deformation of nanocrystalline Al-matrix composites: Effects of the SiC particle and graphene. Computational Materials Science, 2019, 156, 187-194.	1.4	20
21	Deformation and spallation of shock-loaded graphene: Effects of orientation and grain boundary. Carbon, 2018, 132, 520-528.	5.4	21
22	Balancing strength, hardness and ductility of Cu₆₄Zr₃₆ nanoglasses via embedded nanocrystals. Nanotechnology, 2018, 29, 025701.	1.3	19
23	Spall damage of a Ta particle-reinforced metallic glass matrix composite under high strain rate loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 284-292.	2.6	28
24	Strengthening effects of encapsulating graphene in SiC particle-reinforced Al-matrix composites. Computational Materials Science, 2018, 153, 275-281.	1.4	28
25	Tensile and nanoindentation deformation of amorphous/crystalline nanolaminates: Effects of layer thickness and interface type. Computational Materials Science, 2018, 154, 225-233.	1.4	28
26	Improved ductility of Cu₆₄Zr₃₆metallic glass/Cu nanocomposites via phase and grain boundaries. Nanotechnology, 2016, 27, 175701.	1.3	29
27	Irradiation-initiated plastic deformation in prestrained single-crystal copper. Nuclear Instruments & Methods in Physics Research B, 2016, 368, 60-65.	0.6	10
28	Shock response of open-cell nanoporous Cu foams: Effects of porosity and specific surface area. Journal of Applied Physics, 2015, 118, .	1.1	22
29	Short- and medium-range orders in Cu₄₆Zr₅₄ metallic glasses under shock compression. Journal of Applied Physics, 2015, 118, 015901.	1.1	26
30	Shock-induced melting of honeycomb-shaped Cu nanofoams: Effects of porosity. Journal of Applied Physics, 2015, 118, .	1.1	30
31	High-velocity shock compression of SiC via molecular dynamics simulation. Computational Materials Science, 2015, 98, 297-303.	1.4	27