

Yang Tong

List of Publications by Year in descending order

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39
papers

3,551
citations

279798

23
h-index

302126

39
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all docs

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docs citations

40
times ranked

2216
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Zr addition on the local structure and mechanical properties of Tiâ€“Taâ€“Nbâ€“Zr refractory high-entropy alloys. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4428-4438.	5.8	12
2	Elemental partitioning as a route to design precipitation-hardened high entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021, 72, 52-60.	10.7	20
3	Ion irradiation induced strain and structural changes in LiTaO ₃ perovskite*. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 185402.	1.8	5
4	Charge transfer effect on local lattice distortion in a HfNbTiZr high entropy alloy. <i>Scripta Materialia</i> , 2021, 203, 114104.	5.2	16
5	First-principles calculation of lattice distortions in four single phase high entropy alloys with experimental validation. <i>Materials and Design</i> , 2021, 209, 110071.	7.0	15
6	Severe local lattice distortion in Zr- and/or Hf-containing refractory multi-principal element alloys. <i>Acta Materialia</i> , 2020, 183, 172-181.	7.9	108
7	Structural disorder, phase stability and compressibility of refractory body-centered cubic solid-solution alloys. <i>Journal of Alloys and Compounds</i> , 2020, 847, 155970.	5.5	7
8	Local structure of Ni ₈₀ X ₂₀ (X: Cr, Mn, Pd) solid-solution alloys and its response to ion irradiation. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 074002.	1.8	2
9	Unveiling the Electronic Origin for Pressure-Induced Phase Transitions in High-Entropy Alloys. <i>Matter</i> , 2020, 2, 751-763.	10.0	14
10	Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. <i>Scripta Materialia</i> , 2020, 183, 111-116.	5.2	22
11	Critical Review of Chemical Complexity Effect on Local Structure of Multi-principal-Element Alloys. <i>Jom</i> , 2019, 71, 3419-3423.	1.9	13
12	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. <i>Acta Materialia</i> , 2019, 181, 519-529.	7.9	40
13	Peierls barrier characteristic and anomalous strain hardening provoked by dynamic-strain-aging strengthening in a body-centered-cubic high-entropy alloy. <i>Materials Research Letters</i> , 2019, 7, 475-481.	8.7	29
14	Strain engineering 4H-SiC with ion beams. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	11
15	Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. <i>Intermetallics</i> , 2019, 110, 106476.	3.9	76
16	Phase transformations of HfNbTaTiZr high-entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , 2019, 158, 50-56.	5.2	139
17	Origin of serrated flow in bulk metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 634-642.	4.8	33
18	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi _{0.2} high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019, 165, 228-240.	7.9	373

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19	Mechanical rejuvenation in bulk metallic glass induced by thermo-mechanical creep. <i>Acta Materialia</i> , 2018, 148, 384-390.	7.9	61
20	Helium accumulation and bubble formation in FeCoNiCr alloy under high fluence He ⁺ implantation. <i>Journal of Nuclear Materials</i> , 2018, 501, 208-216.	2.7	65
21	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. <i>Materials Research Letters</i> , 2018, 6, 136-141.	8.7	39
22	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , 2018, 148, 42-46.	5.2	54
23	Local structure of NiPd solid solution alloys and its response to ion irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 755, 242-250.	5.5	10
24	Lattice Distortion and Phase Stability of Pd-Doped NiCoFeCr Solid-Solution Alloys. <i>Entropy</i> , 2018, 20, 900.	2.2	27
25	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. <i>Science</i> , 2018, 362, 933-937.	12.6	950
26	Local lattice distortion in NiCoCr, FeCoNiCr and FeCoNiCrMn concentrated alloys investigated by synchrotron X-ray diffraction. <i>Materials and Design</i> , 2018, 155, 1-7.	7.0	96
27	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. <i>Materialia</i> , 2018, 2, 73-81.	2.7	67
28	Microstructural response of He ⁺ irradiated FeCoNiCrTi _{0.2} high-entropy alloy. <i>Journal of Nuclear Materials</i> , 2018, 510, 187-192.	2.7	22
29	A comparison study of local lattice distortion in Ni ₈₀ Pd ₂₀ binary alloy and FeCoNiCrPd high-entropy alloy. <i>Scripta Materialia</i> , 2018, 156, 14-18.	5.2	45
30	Nanoscale Structural Evolution and Anomalous Mechanical Response of Nanoglasses by Cryogenic Thermal Cycling. <i>Nano Letters</i> , 2018, 18, 4188-4194.	9.1	20
31	Chemical complexity induced local structural distortion in NiCoFeMnCr high-entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 450-455.	8.7	54
32	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , 2017, 138, 72-82.	7.9	553
33	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , 2017, 118, 205501.	7.8	283
34	Deformation in Metallic Glasses Studied by Synchrotron X-Ray Diffraction. <i>Metals</i> , 2016, 6, 22.	2.3	16
35	Simulation of Rutherford backscattering spectrometry from arbitrary atom structures. <i>Physical Review E</i> , 2016, 94, 043319.	2.1	34
36	Structural rejuvenation in bulk metallic glasses. <i>Acta Materialia</i> , 2015, 86, 240-246.	7.9	96

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37	Universal mechanism of thermomechanical deformation in metallic glasses. <i>Physical Review B</i> , 2015, 91, .	3.2	11
38	Recovering compressive plasticity of bulk metallic glasses by high-temperature creep. <i>Scripta Materialia</i> , 2013, 69, 570-573.	5.2	38
39	Structural heterogeneity induced plasticity in bulk metallic glasses: From well-relaxed fragile glass to metal-like behavior. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	74