Zhe Fan

List of Publications by Year
in descending order

34	1,017	361413	414414
papers	citations	20 h-index	32 g-index

35	35	35	981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€Strength Nanotwinned Al Alloys with 9R Phase. Advanced Materials, 2018, 30, 1704629.	21.0	93
2	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	12.8	87
3	A roadmap for tailoring the strength and ductility of ferritic/martensitic T91 steel via thermo-mechanical treatment. Acta Materialia, 2016, 112, 361-377.	7.9	76
4	Mechanical behavior of structurally gradient nickel alloy. Acta Materialia, 2018, 149, 57-67.	7.9	70
5	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	12.8	66
6	Unusual size dependent strengthening mechanisms of Cu/amorphous CuNb multilayers. Acta Materialia, 2016, 120, 327-336.	7.9	61
7	The formation mechanisms of growth twins in polycrystalline Al with high stacking fault energy. Acta Materialia, 2015, 101, 62-70.	7.9	48
8	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. Acta Materialia, 2019, 164, 283-292.	7.9	44
9	Texture-directed twin formation propensity in Al with high stacking fault energy. Acta Materialia, 2018, 144, 226-234.	7.9	36
10	Cyclic deformation induced strengthening and unusual rate sensitivity in Cu/Ru nanolayered films. International Journal of Plasticity, 2017, 99, 43-57.	8.8	33
11	Strong and plastic metallic composites with nanolayered architectures. Acta Materialia, 2020, 195, 240-251.	7.9	31
12	Deformation mechanisms in FCC Co dominated by high-density stacking faults. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 12-21.	5.6	27
13	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance producedviaa hybrid technique. Nanoscale, 2020, 12, 1356-1365.	5.6	27
14	Layer thickness dependent strain rate sensitivity of Cu/amorphous CuNb multilayer. Applied Physics Letters, 2017, 110, .	3.3	25
15	Grain refinement mechanisms and strength-hardness correlation of ultra-fine grained grade 91 steel processed by equal channel angular extrusion. International Journal of Pressure Vessels and Piping, 2019, 172, 212-219.	2.6	25
16	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by in-situ micromechanical testing at elevated temperatures. Materials Research Letters, 2019, 7, 194-202.	8.7	25
17	â€œDuctileâ€•Fracture of Metallic Glass Nanolaminates. Advanced Materials Interfaces, 2017, 4, 1700510.	3.7	24
18	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. Nature Communications, 2020, 11, 1022.	12.8	23

#	Article	IF	Citations
19	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. Materialia, 2020, 9, 100603.	2.7	22
20	In Situ Studies on the Irradiation-Induced Twin Boundary-Defect Interactions in Cu. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5172-5180.	2.2	21
21	In situObservation of Defect Annihilation in Kr Ion-Irradiated Bulk Fe/Amorphous-Fe₂Zr Nanocomposite Alloy. Materials Research Letters, 2015, 3, 35-42.	8.7	20
22	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. Journal of Materials Research, 2017, 32, 2680-2689.	2.6	17
23	Temperature-dependent defect accumulation and evolution in Ni-irradiated NiFe concentrated solid-solution alloy. Journal of Nuclear Materials, 2019, 519, 1-9.	2.7	16
24	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. Journal of Materials Research, 2018, 33, 3739-3749.	2.6	15
25	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy. Journal of Materials Research, 2021, 36, 298-310.	2.6	15
26	In situ studies on superior thermal stability of bulk FeZr nanocomposites. Acta Materialia, 2015, 101, 125-135.	7.9	14
27	An in situ study on Kr ionâ€“irradiated crystalline Cu/amorphous-CuNb nanolaminates. Journal of Materials Research, 2019, 34, 2218-2228.	2.6	14
28	Temperature effects on damage evolution in ion-irradiated NiCoCr concentrated solid-solution alloy. Journal of Alloys and Compounds, 2020, 832, 154918.	5.5	9
29	High-strength and tunable plasticity in sputtered Alâ€“Cr alloys with multistage phase transformations. International Journal of Plasticity, 2021, 137, 102915.	8.8	9
30	Multi-axial and multi-energy channeling study of disorder evolution in ion-irradiated nickel. Journal of Nuclear Materials, 2019, 525, 92-101.	2.7	8
31	Strategies to tailor serrated flows in metallic glasses. Journal of Materials Research, 2019, 34, 1595-1607.	2.6	7
32	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy. Journal of Materials Research, 2021, 36, 1-13.	2.6	3
33	Role of chemical disorder on radiation-induced defect production and damage evolution in NiFeCoCr. Journal of Nuclear Materials, 2022, 565, 153689.	2.7	3
34	Thickness-Dependent Strain Rate Sensitivity of Nanolayers via the Nanoindentation Technique. Crystals, 2018, 8, 128.	2.2	2