

# Zhe Fan

## List of Publications by Year in descending order

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34  
papers

1,017  
citations

361413

20  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of chemical disorder on radiation-induced defect production and damage evolution in NiFeCoCr. Journal of Nuclear Materials, 2022, 565, 153689.	2.7	3
2	High-strength and tunable plasticity in sputtered Al-Cr alloys with multistage phase transformations. International Journal of Plasticity, 2021, 137, 102915.	8.8	9
3	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
4	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
5	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance produced via a hybrid technique. Nanoscale, 2020, 12, 1356-1365.	5.6	27
6	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. Materialia, 2020, 9, 100603.	2.7	22
7	Strong and plastic metallic composites with nanolayered architectures. Acta Materialia, 2020, 195, 240-251.	7.9	31
8	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. Nature Communications, 2020, 11, 1022.	12.8	23
9	Temperature effects on damage evolution in ion-irradiated NiCoCr concentrated solid-solution alloy. Journal of Alloys and Compounds, 2020, 832, 154918.	5.5	9
10	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
11	Strategies to tailor serrated flows in metallic glasses. Journal of Materials Research, 2019, 34, 1595-1607.	2.6	7
12	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
13	An in situ study on Kr ion-irradiated crystalline Cu/amorphous-CuNb nanolaminates. Journal of Materials Research, 2019, 34, 2218-2228.	2.6	14
14	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
15	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
16	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
17	Mechanical behavior of structurally gradient nickel alloy. Acta Materialia, 2018, 149, 57-67.	7.9	70
18	High-strength Nanotwinned Al Alloys with 9R Phase. Advanced Materials, 2018, 30, 1704629.	21.0	93

#	ARTICLE	IF	CITATIONS
19	Texture-directed twin formation propensity in Al with high stacking fault energy. <i>Acta Materialia</i> , 2018, 144, 226-234.	7.9	36
20	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. <i>Journal of Materials Research</i> , 2018, 33, 3739-3749.	2.6	15
21	Thickness-Dependent Strain Rate Sensitivity of Nanolayers via the Nanoindentation Technique. <i>Crystals</i> , 2018, 8, 128.	2.2	2
22	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. <i>Nature Communications</i> , 2018, 9, 2063.	12.8	87
23	Deformation mechanisms in FCC Co dominated by high-density stacking faults. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 12-21.	5.6	27
24	Layer thickness dependent strain rate sensitivity of Cu/amorphous CuNb multilayer. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	25
25	In Situ Studies on the Irradiation-Induced Twin Boundary-Defect Interactions in Cu. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5172-5180.	2.2	21
26	Cyclic deformation induced strengthening and unusual rate sensitivity in Cu/Ru nanolayered films. <i>International Journal of Plasticity</i> , 2017, 99, 43-57.	8.8	33
27	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. <i>Journal of Materials Research</i> , 2017, 32, 2680-2689.	2.6	17
28	“Ductile” Fracture of Metallic Glass Nanolaminates. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700510.	3.7	24
29	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. <i>Nature Communications</i> , 2017, 8, 1653.	12.8	66
30	Unusual size dependent strengthening mechanisms of Cu/amorphous CuNb multilayers. <i>Acta Materialia</i> , 2016, 120, 327-336.	7.9	61
31	A roadmap for tailoring the strength and ductility of ferritic/martensitic T91 steel via thermo-mechanical treatment. <i>Acta Materialia</i> , 2016, 112, 361-377.	7.9	76
32	<i>In situ</i> Observation of Defect Annihilation in Kr Ion-Irradiated Bulk Fe/Amorphous-Fe <sub>2</sub> Zr Nanocomposite Alloy. <i>Materials Research Letters</i> , 2015, 3, 35-42.	8.7	20
33	In situ studies on superior thermal stability of bulk FeZr nanocomposites. <i>Acta Materialia</i> , 2015, 101, 125-135.	7.9	14
34	The formation mechanisms of growth twins in polycrystalline Al with high stacking fault energy. <i>Acta Materialia</i> , 2015, 101, 62-70.	7.9	48