

# Weitong Lin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9277969/publications.pdf>

Version: 2024-02-01

30  
papers

754  
citations

566801

15  
h-index

525886

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving large uniform tensile elasticity in microfabricated diamond. <i>Science</i> , 2021, 371, 76-78.	6.0	95
2	Transformation-reinforced high-entropy alloys with superior mechanical properties via tailoring stacking fault energy. <i>Journal of Alloys and Compounds</i> , 2019, 792, 444-455.	2.8	90
3	Anomalous precipitate-size-dependent ductility in multicomponent high-entropy alloys with dense nanoscale precipitates. <i>Acta Materialia</i> , 2022, 223, 117480.	3.8	72
4	Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. <i>International Journal of Plasticity</i> , 2021, 144, 103022.	4.1	51
5	Diffusion controlled helium bubble formation resistance of FeCoNiCr high-entropy alloy in the half-melting temperature regime. <i>Journal of Nuclear Materials</i> , 2019, 526, 151747.	1.3	40
6	Temperature-dependent hardening contributions in CrFeCoNi high-entropy alloy. <i>Acta Materialia</i> , 2021, 221, 117371.	3.8	36
7	3D printing of dual phase-strengthened microlattices for lightweight micro aerial vehicles. <i>Materials and Design</i> , 2021, 206, 109767.	3.3	35
8	Generalized stability criterion for exploiting optimized mechanical properties by a general correlation between phase transformations and plastic deformations. <i>Acta Materialia</i> , 2020, 201, 167-181.	3.8	34
9	Hollow medium-entropy alloy nanolattices with ultrahigh energy absorption and resilience. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	34
10	Effect of silicon addition on the microstructures, mechanical properties and helium irradiation resistance of NiCoCr-based medium-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156162.	2.8	30
11	Exploring the concurrence of phase transition and grain growth in nanostructured alloy. <i>Acta Materialia</i> , 2016, 118, 306-316.	3.8	25
12	Highly pressurized helium nanobubbles promote stacking-fault-mediated deformation in FeNiCoCr high-entropy alloy. <i>Acta Materialia</i> , 2021, 210, 116843.	3.8	25
13	Enhanced tensile ductility of tungsten microwires via high-density dislocations and reduced grain boundaries. <i>Journal of Materials Science and Technology</i> , 2021, 95, 193-202.	5.6	21
14	Microstructure evolution, densification behavior and mechanical properties of nano-HfB <sub>2</sub> sintered under high pressure. <i>Ceramics International</i> , 2019, 45, 7885-7893.	2.3	20
15	Grain boundary-constrained reverse austenite transformation in nanostructured Fe alloy: Model and application. <i>Acta Materialia</i> , 2018, 154, 56-70.	3.8	18
16	Effects of minor alloying addition on He bubble formation in the irradiated FeCoNiCr-based high-entropy alloys. <i>Journal of Nuclear Materials</i> , 2020, 542, 152458.	1.3	15
17	He-enhanced heterogeneity of radiation-induced segregation in FeNiCoCr high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2022, 101, 226-233.	5.6	14
18	Ultrahard and stable nanostructured cubic boron nitride from hexagonal boron nitride. <i>Ceramics International</i> , 2020, 46, 12788-12794.	2.3	13

#	ARTICLE	IF	CITATIONS
19	The stability of $\text{Fe}_3\text{C}$ precipitates in a multi-component FeCoNiCrTi <sub>0.2</sub> alloy under elevated-temperature irradiation. <i>Journal of Nuclear Materials</i> , 2020, 540, 152364.	1.3	12
20	Orientation-dependent large plasticity of single-crystalline gallium selenide. <i>Cell Reports Physical Science</i> , 2022, 3, 100816.	2.8	10
21	Effect of oxygen pressure on the oxidation behavior of NiCoCr medium-entropy alloy at 800 °C. <i>Corrosion Science</i> , 2021, 185, 109411.	3.0	8
22	High-temperature air-oxidation of NiCoCrAl <sub>x</sub> medium-entropy alloys. <i>Corrosion Science</i> , 2021, 192, 109858.	3.0	8
23	Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys. <i>Journal of Nuclear Materials</i> , 2021, 557, 153261.	1.3	8
24	Production of silicon carbide reinforced molybdenum disilicide composites using high-pressure sintering. <i>Ceramics International</i> , 2020, 46, 23643-23650.	2.3	7
25	Achieving Dislocation Strengthening in Hafnium Carbide through High Pressure and High Temperature. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24254-24262.	1.5	7
26	The effect of pressure tuning on the structure and mechanical properties of high-entropy carbides. <i>Scripta Materialia</i> , 2022, 216, 114755.	2.6	7
27	Interaction between recrystallization and helium behavior in cold-rolled nickel. <i>Materials Letters</i> , 2019, 250, 68-71.	1.3	6
28	Critical Effect of Film/Electrode Interface on Enhanced Energy Storage Performance of BaTiO <sub>3</sub> /BiScO <sub>3</sub> Ferroelectric Thin Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4726-4733.	2.0	5
29	Temperature-dependent helium induced microstructural evolution in equiatomic NiCo and NiFe concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , 2021, 545, 152715.	1.3	4
30	Pressure-Induced Phase Transition and Compression Properties of HfO <sub>2</sub> Nanocrystals. <i>Inorganic Chemistry</i> , 2022, 61, 3498-3507.	1.9	4