

# Zebang Zheng

## List of Publications by Year in descending order

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27  
papers

781  
citations

623734

14  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slip transfer across phase boundaries in dual phase titanium alloys and the effect on strain rate sensitivity. <i>International Journal of Plasticity</i> , 2018, 104, 23-38.	8.8	95
2	Electron force-induced dislocations annihilation and regeneration of a superalloy through electrical in-situ transmission electron microscopy observations. <i>Journal of Materials Science and Technology</i> , 2020, 36, 79-83.	10.7	77
3	Investigation of slip transfer across HCP grain boundaries with application to cold dwell facet fatigue. <i>Acta Materialia</i> , 2017, 127, 43-53.	7.9	74
4	A microstructure-sensitive driving force for crack growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 121, 147-174.	4.8	66
5	Discrete dislocation and crystal plasticity analyses of load shedding in polycrystalline titanium alloys. <i>International Journal of Plasticity</i> , 2016, 87, 15-31.	8.8	61
6	Microstructural effects on strain rate and dwell sensitivity in dual-phase titanium alloys. <i>Acta Materialia</i> , 2019, 162, 136-148.	7.9	61
7	Dwell fatigue in two Ti alloys: An integrated crystal plasticity and discrete dislocation study. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 96, 411-427.	4.8	59
8	Rate sensitivity in discrete dislocation plasticity in hexagonal close-packed crystals. <i>Acta Materialia</i> , 2016, 107, 17-26.	7.9	42
9	Understanding thermal alleviation in cold dwell fatigue in titanium alloys. <i>International Journal of Plasticity</i> , 2018, 111, 234-252.	8.8	39
10	The dislocation configurational energy density in discrete dislocation plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 129, 39-60.	4.8	38
11	Mechanistic basis of temperature-dependent dwell fatigue in titanium alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 107, 185-203.	4.8	35
12	Microstructural and geometrical size effects on the fatigue of metallic materials. <i>International Journal of Mechanical Sciences</i> , 2022, 218, 107058.	6.7	25
13	Twin nucleation and variant selection in Mg alloys: An integrated crystal plasticity modelling and experimental approach. <i>International Journal of Plasticity</i> , 2020, 135, 102778.	8.8	24
14	The roles of rise and fall time in load shedding and strain partitioning under the dwell fatigue of titanium alloys with different microstructures. <i>International Journal of Plasticity</i> , 2022, 149, 103161.	8.8	17
15	A constitutive model coupling damage and material anisotropy for wide stress triaxiality. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 3509-3525.	5.3	16
16	Heterogeneous Internal Strain Evolution in Commercial Purity Titanium Due to Anisotropic Coefficients of Thermal Expansion. <i>Jom</i> , 2020, 72, 39-47.	1.9	13
17	Fracture prediction for metal sheet deformation under different stress states with uncoupled ductile fracture criteria. <i>Journal of Manufacturing Processes</i> , 2022, 73, 531-543.	5.9	9
18	A comparative study of three forms of an uncoupled damage model as fracture judgment for thin-walled metal sheets. <i>Thin-Walled Structures</i> , 2021, 169, 108321.	5.3	6

#	ARTICLE	IF	CITATIONS
19	Forming dependence on spin roller paths for thin-walled complex components from 2195 Al-Li alloy TWBs. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 3113.	3.0	6
20	Static recrystallization study on pure aluminium using crystal plasticity finite element and phase-field modelling. <i>Procedia Manufacturing</i> , 2018, 15, 1800-1807.	1.9	5
21	Microstructural Effects on Thermal-Mechanical Alleviation of Cold Dwell Fatigue in Titanium Alloys. <i>Crystals</i> , 2022, 12, 208.	2.2	4
22	The effect of strain rate asymmetry on the Bauschinger effect: A discrete dislocation plasticity analysis. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1904-1918.	5.8	3
23	Investigation on the Solidification and Phase Transformation in Pb-Free Solders Using In Situ Synchrotron Radiography and Diffraction: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 49-66.	2.9	2
24	Crystal Plasticity Simulation of the Microstructural Effect in Powder Metallurgy Superalloys under Dwell Fatigue Loading. <i>Crystals</i> , 2022, 12, 269.	2.2	2
25	Effects of Grain Size, Orientation, and Source Density on Dislocation Configurational Energy Density. <i>Jom</i> , 2019, 71, 2576-2585.	1.9	1
26	Fracture prediction in spin forming of anisotropic metal sheets. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 7743-7758.	2.1	1
27	Micromechanical approaches to understand dwell fatigue: from titanium a-b microstructures to disc thermal alleviation. <i>MATEC Web of Conferences</i> , 2020, 321, 04004.	0.2	0