Ronghai Wu

List of Publications by Year in descending order

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Version: 2024-02-01

840728 888047 17 382 11 17 citations h-index g-index papers 17 17 17 225 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Study on hot deformation behavior and intrinsic workability of 6063 aluminum alloys using 3D processing map. Journal of Alloys and Compounds, 2017, 713, 212-221.	5 . 5	75
2	A continuum approach to combined $\hat{l}^3/\hat{l}^3\hat{a}\in 2$ evolution and dislocation plasticity in Nickel-based superalloys. International Journal of Plasticity, 2017, 95, 142-162.	8.8	49
3	Effect of initial <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>γ</mml:mi><mml:mo>/</mml:mo><mml:msup><mml:mi>γ</mml:mi> microstructure on creep of single crystal nickel-based superalloys: A phase-field simulation incorporating dislocation dynamics. Iournal of Alloys and Compounds. 2019. 779. 326-334.</mml:msup></mml:mrow></mml:math>	kmml:mo> 5.5	′:m 40
4	Insights from a minimal model of dislocation-assisted rafting in single crystal Nickel-based superalloys. Scripta Materialia, 2016, 123, 42-45.	5.2	32
5	Instability of dislocation fluxes in a single slip: Deterministic and stochastic models of dislocation patterning. Physical Review B, 2018, 98, .	3.2	28
6	Effect of Re on mechanical properties of single crystal Ni-based superalloys: Insights from first-principle and molecular dynamics. Journal of Alloys and Compounds, 2021, 862, 158643.	5 . 5	28
7	A dislocation dynamics-assisted phase field model for Nickel-based superalloys: The role of initial dislocation density and external stress during creep. Journal of Alloys and Compounds, 2017, 703, 389-395.	5.5	24
8	Atomistic simulation studies of Ni-based superalloys. Journal of Alloys and Compounds, 2021, 855, 157355.	5.5	23
9	Cell structure formation in a two-dimensional density-based dislocation dynamics model. Materials Theory, 2021, 5, .	4.3	16
10	High temperature creep mechanisms of a single crystal superalloy: A phase-field simulation and microstructure characterization. Progress in Natural Science: Materials International, 2020, 30, 366-370.	4.4	13
11	Elastoplastic behavior of the \hat{I}^3 -phase in Ni-based single crystal superalloys: A molecular dynamics study considering Re and temperature effect. Mechanics of Materials, 2021, 160, 103989.	3.2	12
12	Cyclic-loading microstructure-property relations from a mesoscale perspective: An example of single crystal Nickel-based superalloys. Journal of Alloys and Compounds, 2019, 770, 964-971.	5 . 5	11
13	Thermodynamic considerations on a class of dislocation-based constitutive models. Journal of the Mechanics and Physics of Solids, 2022, 159, 104735.	4.8	11
14	Characterization and Analysis of Strain Heterogeneity at Grain-Scale of Titanium Alloy with Tri-Modal Microstructure during Tensile Deformation. Materials, 2018, 11, 2194.	2.9	6
15	Effect of Dislocation Mechanism on Elastoplastic Behavior of Crystals with Heterogeneous Dislocation Distribution. Acta Mechanica Solida Sinica, 2020, 33, 487-495.	1.9	5
16	Insights into the nucleation, grain growth and phase transformation behaviours of sputtered metastable Î ² -W films. Journal of Materials Science and Technology, 2021, 90, 66-75.	10.7	5
17	Investigation of the relation between bainitic-ferritic microstructures and coincidence-site lattice boundaries by electron backscatter diffraction. Materials Letters, 2020, 267, 127553.	2.6	4