

Xiao-Min Chen

List of Publications by Year in descending order

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16
papers

2,150
citations

623574

14
h-index

940416

16
g-index

16
all docs

16
docs citations

16
times ranked

1255
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of experimental results and constitutive descriptions for metals and alloys in hot working. <i>Materials & Design</i> , 2011, 32, 1733-1759.	5.1	1,094
2	A modified Johnson-Cook model for tensile behaviors of typical high-strength alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6980-6986.	2.6	295
3	A physically-based constitutive model for a typical nickel-based superalloy. <i>Computational Materials Science</i> , 2014, 83, 282-289.	1.4	217
4	Microstructural evolution and constitutive models to predict hot deformation behaviors of a nickel-based superalloy. <i>Vacuum</i> , 2017, 137, 104-114.	1.6	131
5	A unified physically based constitutive model for describing strain hardening effect and dynamic recovery behavior of a Ni-based superalloy. <i>Journal of Materials Research</i> , 2015, 30, 3784-3794.	1.2	74
6	A precise BP neural network-based online model predictive control strategy for die forging hydraulic press machine. <i>Neural Computing and Applications</i> , 2018, 29, 585-596.	3.2	66
7	A novel unified dislocation density-based model for hot deformation behavior of a nickel-based superalloy under dynamic recrystallization conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	56
8	A comparative study on phenomenon and deep belief network models for hot deformation behavior of an Al-Zn-Mg-Cu alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	47
9	A new method to predict the metadynamic recrystallization behavior in a typical nickel-based superalloy. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	37
10	Improved dislocation density-based models for describing hot deformation behaviors of a Ni-based superalloy. <i>Journal of Materials Research</i> , 2016, 31, 2415-2429.	1.2	32
11	An Enhanced Johnson-Cook Model for Hot Compressed A356 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2021, 23, .	1.6	30
12	Cyclic Plasticity Constitutive Model for Uniaxial Ratcheting Behavior of AZ31B Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1820-1833.	1.2	26
13	Influences of Initial Microstructures on Portevin-Chatelier Effect and Mechanical Properties of a Ni-Fe-Cr-Base Superalloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1800234.	1.6	19
14	Influence of Stress-Aging Processing on Precipitates and Mechanical Properties of a 7075 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1700583.	1.6	15
15	A Strain-Compensated Constitutive Model for Describing the Hot Compressive Deformation Behaviors of an Aged Inconel 718 Superalloy. <i>High Temperature Materials and Processes</i> , 2019, 38, 436-443.	0.6	10
16	Effects of initial γ' phase on flow behaviors and dynamically recrystallized grain size of a nickel-based superalloy. <i>Advances in Materials and Processing Technologies</i> , 2015, 1, 84-97.	0.8	1