

Fei Chen

List of Publications by Year in descending order

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57
papers

1,485
citations

304368

22
h-index

329751

37
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58
all docs

58
docs citations

58
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Recrystallization of 30Cr2Ni4MoV ultra-super-critical rotor steel during hot deformation. Part I: Dynamic recrystallization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5073-5080.	2.6	131
2	Mesoscale simulation of the high-temperature austenitizing and dynamic recrystallization by coupling a cellular automaton with a topology deformation technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5539-5549.	2.6	96
3	Modeling the dynamic recrystallization in austenitic stainless steel using cellular automaton method. <i>Computational Materials Science</i> , 2014, 83, 331-340.	1.4	83
4	Recrystallization of 30Cr2Ni4MoV ultra-super-critical rotor steel during hot deformation. Part II: Metadynamic recrystallization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 540, 46-54.	2.6	78
5	Flow characteristics and intrinsic workability of IN718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 279-287.	2.6	68
6	Modeling and simulation on dynamic recrystallization of 30Cr2Ni4MoV rotor steel using the cellular automaton method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009, 17, 075015.	0.8	57
7	A physically-based constitutive model for SA508-III steel: Modeling and experimental verification. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 634, 103-115.	2.6	53
8	A modified Johnson-Cook model for 10%Cr steel at elevated temperatures and a wide range of strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 1-9.	2.6	51
9	High-temperature deformation mechanisms and physical-based constitutive modeling of ultra-supercritical rotor steel. <i>Journal of Manufacturing Processes</i> , 2019, 38, 223-234.	2.8	50
10	Development of novel tools for electricity-assisted incremental sheet forming of titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 1137-1144.	1.5	49
11	The new ductile fracture criterion for 30Cr2Ni4MoV ultra-super-critical rotor steel at elevated temperatures. <i>Materials & Design</i> , 2013, 52, 547-555.	5.1	48
12	A constitutive model of polyether-ether-ketone (PEEK). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 427-433.	1.5	48
13	Constitutive modeling of hot deformation behavior of X20Cr13 martensitic stainless steel with strain effect. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1407-1413.	1.7	42
14	Mesoscale modeling and simulation of microstructure evolution during dynamic recrystallization of a Ni-based superalloy. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	40
15	Multiscale modeling of discontinuous dynamic recrystallization during hot working by coupling multilevel cellular automaton and finite element method. <i>International Journal of Plasticity</i> , 2021, 145, 103064.	4.1	40
16	Hot tensile fracture characteristics and constitutive modelling of polyether-ether-ketone (PEEK). <i>Polymer Testing</i> , 2017, 63, 168-179.	2.3	38
17	Review on modeling and simulation of microstructure evolution during dynamic recrystallization using cellular automaton method. <i>Science China Technological Sciences</i> , 2020, 63, 357-396.	2.0	34
18	Fracture characteristics of PEEK at various stress triaxialities. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 173-186.	1.5	31

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19	Experimental investigation on electroplastic effect of DP980 advanced high strength steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 23-28.	2.6	28
20	Modeling of Austenite Grain Growth During Austenitization in a Low Alloy Steel. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 152-164.	1.2	27
21	Microstructural modeling and numerical simulation of multi-physical fields for martensitic stainless steel during hot forging process of turbine blade. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 85-98.	1.5	27
22	Mesoscale simulation of microstructure evolution during multi-stage hot forging processes. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 045008.	0.8	23
23	Static Recrystallization of 30Cr2Ni4MoV Ultra-Super-Critical Rotor Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3034-3041.	1.2	23
24	Investigation on the electrically-assisted stress relaxation of AZ31B magnesium alloy sheet. <i>Journal of Materials Processing Technology</i> , 2016, 227, 88-95.	3.1	23
25	Experimental investigation on electrically assisted cylindrical deep drawing of AZ31B magnesium alloy sheet. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 1063-1069.	1.5	19
26	Investigation on metadynamic recrystallization behavior in SA508- D'' steel during hot deformation. <i>Journal of Manufacturing Processes</i> , 2017, 29, 18-28.	2.8	19
27	Mechanism of twist in incremental sheet forming of thermoplastic polymer. <i>Materials and Design</i> , 2020, 195, 108997.	3.3	19
28	Constitutive Modeling for Elevated Temperature Flow Behavior of 30Cr2Ni4MoV Ultra-super-critical Rotor Steel. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 521-526.	1.4	18
29	Static recrystallization behavior of SA508-III steel during hot deformation. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 466-474.	1.4	18
30	Numerical Simulation of Microstructure Evolution for SA508-3 Steel During Inhomogeneous Hot Deformation Process. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 1022-1029.	1.4	15
31	Mesoscale Modeling of Dynamic Recrystallization: Multilevel Cellular Automaton Simulation Framework. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1286-1303.	1.1	13
32	Physically-Based Constitutive Modelling of As-Cast CL70 Steel for Hot Deformation. <i>Metals and Materials International</i> , 2021, 27, 1728-1738.	1.8	13
33	Coupled quantitative modeling of microstructural evolution and plastic flow during continuous dynamic recrystallization. <i>International Journal of Plasticity</i> , 2022, 156, 103372.	4.1	13
34	Mathematical Modeling of Critical Condition for Dynamic Recrystallization. <i>Procedia Engineering</i> , 2014, 81, 486-491.	1.2	12
35	Prediction of microstructural evolution during hot forging. <i>Manufacturing Review</i> , 2014, 1, 6.	0.9	12
36	Asymmetry in the hot deformation behavior of AZ31B magnesium sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 198-206.	2.6	12

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37	Investigation on Dynamic Recrystallization Behavior of Martensitic Stainless Steel. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-16.	1.0	11
38	Design of the novel hot incremental sheet forming experimental setup, characterization of formability behavior of polyether-ether-ketone (PEEK). <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 5365-5381.	1.5	11
39	Ductile Fracture Prediction of 316LN Stainless Steel In Hot Deformation Process. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 923-930.	1.4	10
40	New Constitutive Model for Hot Working. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1229-1239.	1.1	10
41	Investigation on transient electrically-assisted stress relaxation of QP980 advanced high strength steel. <i>Mechanics of Materials</i> , 2016, 93, 238-245.	1.7	9
42	Microstructure refinement by tool rotation-induced vibration in incremental sheet forming. <i>Procedia Engineering</i> , 2017, 207, 795-800.	1.2	9
43	Study on Dynamic Recrystallization Behaviors in a Hot-Deformed FB2 Ultra-supercritical Rotor Steel. <i>Metallography, Microstructure, and Analysis</i> , 2019, 8, 145-158.	0.5	8
44	PEEK based cranial reconstruction using thermal assisted incremental sheet forming. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2022, 236, 997-1004.	1.5	8
45	Deformation and fracture of AMC under different heat treatment conditions and its suitability for incremental sheet forming. <i>Procedia Engineering</i> , 2017, 207, 848-853.	1.2	6
46	Void closure behavior during plastic deformation using the representative volume element model. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	6
47	Creep rupture behavior and microstructural evolution of modified 9Cr-1Mo heat-resistant steel. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 1303-1310.	1.4	5
48	A Comparative Study on Constitutive Modeling for Flow Behavior of Ultra-Supercritical Steel at High Temperature. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 7475-7492.	1.2	4
49	Microstructure Evolution Mechanism and Mechanical Properties of Mg-RE Alloy at a Critical Transition Temperature of Material Performance. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 7198-7206.	1.2	4
50	A virtual laboratory based on full-field crystal plasticity simulation to characterize the multiscale mechanical properties of AHSS. <i>Scientific Reports</i> , 2022, 12, 5054.	1.6	4
51	A new method for joining of polymer sheet and open-cell metal foam by thermal assisted incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 3659.	1.5	3
52	Prediction of Flow Stress Behavior of 70Cr3Mo Back-Up Roll Steel Using Modified Zerilli-Armstrong Model. <i>Applied Mechanics and Materials</i> , 0, 552, 247-250.	0.2	2
53	Behavior and Mechanism of Void Welding Under Thermal Mechanical Coupling. <i>Metals and Materials International</i> , 2022, 28, 1751-1762.	1.8	2
54	Modeling and simulation of austenite grain evolution for heavy forging steel 30Cr2Ni4MoV undergoing hot deformation. , 2013, , .		1

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55	Modeling the completely recrystallized grain growth of NiCrMoV rotor steel. Journal of Shanghai Jiaotong University (Science), 2015, 20, 600-605.	0.5	1
56	Investigation on the Strengthening Mechanism of Flow Control Extrusion by Using Experiment and Numerical Simulation. Materials, 2021, 14, 5001.	1.3	0
57	Modeling the Dynamic Recrystallization: A Modified Cellular Automaton Method. , 0, , 57-62.		0