Chengwu Zheng

List of Publications by Year
in descending order

19	796	687363 13	794594 19
papers	citations	h-index	g-index

19	19	19	530
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Temperature Plasticity Enhanced by Multiple Secondary Phases in a High-Si Austenitic Stainless Steel. Acta Metallurgica Sinica (English Letters), 2022, 35, 1519-1530.	2.9	2
2	Phase Characterization and Formation Behavior in 6 wt% Si High-silicon Austenitic Stainless Steel during Isothermal Aging. Acta Metallurgica Sinica (English Letters), 2021, 34, 649-656.	2.9	8
3	Mesoscopic Analysis of Deformation Heterogeneity and Recrystallization Microstructures of a Dual-Phase Steel Using a Coupled Simulation Approach. Acta Metallurgica Sinica (English Letters), 2021, 34, 777-788.	2.9	7
4	Strain-rate dependence of the dynamic softening in a duplex stainless steel. Materials Characterization, 2020, 162, 110219.	4.4	19
5	Cellular automaton modeling of austenite formation from ferrite plus pearlite microstructures during intercritical annealing of a C-Mn steel. Journal of Materials Science and Technology, 2020, 47, 1-9.	10.7	10
6	Continuous dynamic recrystallization during the transient deformation in a Ni-30%Fe austenitic model alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 751, 10-14.	5.6	60
7	Achieving strength-ductility synergy in cold spray additively manufactured Al/B4C composites through a hybrid post-deposition treatment. Journal of Materials Science and Technology, 2019, 35, 1053-1063.	10.7	46
8	Coupled simulation of ferrite recrystallization in a dual-phase steel considering deformation heterogeneity at mesoscale. Computational Materials Science, 2018, 149, 191-201.	3.0	18
9	Evolution of twins and sub-boundaries at the early stage of dynamic recrystallization in a Ni-30%Fe austenitic model alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 419-428.	5.6	31
10	Microstructural Depictions of Austenite Dynamic Recrystallization in a Low-Carbon Steel: A Cellular Automaton Model. Acta Metallurgica Sinica (English Letters), 2016, 29, 1127-1135.	2.9	10
11	Interaction between recrystallization and phase transformation during intercritical annealing in a cold-rolled dual-phase steel: A cellular automaton model. Acta Materialia, 2013, 61, 5504-5517.	7.9	156
12	Prediction of post-dynamic austenite-to-ferrite transformation and reverse transformation in a low-carbon steel by cellular automaton modeling. Acta Materialia, 2012, 60, 4768-4779.	7.9	57
13	Mechanical Properties and Temper Resistance of Deformation Induced Ferrite in a Low Carbon Steel. Journal of Materials Science and Technology, 2010, 26, 1107-1113.	10.7	10
14	Numerical simulation of dynamic strain-induced austeniteâ€“ferrite transformation in a low carbon steel. Acta Materialia, 2009, 57, 2956-2968.	7.9	59
15	Mesoscopic modeling of austenite static recrystallization in a low carbon steel using a coupled simulation method. Computational Materials Science, 2009, 45, 568-575.	3.0	49
16	On the ferrite refinement during the dynamic strain-induced transformation: A cellular automaton modeling. Scripta Materialia, 2008, 58, 838-841.	5.2	22
17	A simulation of dynamic recrystallization by coupling a cellular automaton method with a topology deformation technique. Computational Materials Science, 2008, 41, 366-374.	3.0	84
18	Microstructure prediction of the austenite recrystallization during multi-pass steel strip hot rolling: A cellular automaton modeling. Computational Materials Science, 2008, 44, 507-514.	3.0	109

#	Article	IF	Citations
19	Growth modes of individual ferrite grains in the austenite to ferrite transformation of low carbon steels. Acta Materialia, 2007, 55, 6234-6249.	7.9	39