Zheng-zhi Zhao

List of Publications by Year
in descending order

40	615	932766 10	642321 23
papers	citations	h-index	g-index

40	40	40	489
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Mn pre-partition before cold rolling on austenite reversion and mechanical properties of 3.5Mn steel. Ironmaking and Steelmaking, 2022, 49, 123-130.	1.1	1
2	In-situ neutron diffraction investigation of two-stage martensitic transformation in a 13%Mn steel with serrated deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142955.	2.6	4
3	Distribution of Nonmetallic Inclusions in Slab for Tinplate. Metals, 2022, 12, 679.	1.0	1
4	Interaction between dislocations, precipitates and hydrogen atoms in a 2000ÂMPa grade hot-stamped steel. Journal of Materials Research and Technology, 2022, 18, 4353-4366.	2.6	12
5	Effect of B Addition on Microstructure and Mechanical Properties of High-Strength 13Mn TRIP Steel with Different Annealing Temperatures. Crystals, 2022, 12, 776.	1.0	1
6	0.1Câ€“11Mn medium manganese steel treated by quenching and tempering process. Materials Science and Technology, 2022, 38, 1490-1500.	0.8	2
7	Microstructure and Mechanical Properties of a Novel Ultraâ€High Strength Hotâ€Stamped Steel with High Hardenability. Steel Research International, 2022, 93, .	1.0	3
8	Microstructure and wear mechanism of high-strength steels for concrete mixing drum coiled at different temperatures. Ironmaking and Steelmaking, 2021, 48, 351-358.	1.1	1
9	Effect of microstructure evolution on LÃ¼ders strain and tensile properties in an intercritical annealing medium-Mn steel. Journal of Iron and Steel Research International, 2021, 28, 762-772.	1.4	6
10	A 2000ÂMPa grade Nb bearing hot stamping steel with ultra-high yield strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140419.	2.6	19
11	Microstructure, property and deformation and fracture behavior of 800ÂMPa complex phase steel with different coiling temperatures. Journal of Iron and Steel Research International, 2021, 28, 346-359.	1.4	8
12	Effect of vanadium on hydrogen embrittlement susceptibility of high-strength hot-stamped steel. Journal of Iron and Steel Research International, 2021, 28, 211-222.	1.4	23
13	Effect of V Addition on Microstructure and Mechanical Properties in Câ€“Mnâ€“Si Steels after Quenching and Partitioning Processes. Metals, 2021, 11, 1306.	1.0	3
14	Analysis of the relationship between microstructure and mechanical properties of intercritically annealed 3.5Mn steel. Materials Research Express, 2021, 8, 086517.	0.8	3
15	The mechanism of substructure formation and grain growth 316L stainless steel by selective laser melting. Materials Research Express, 2021, 8, 096510.	0.8	13
16	316L FFF binder development and debinding optimization. Materials Research Express, 2021, 8, 116515.	0.8	10
17	316L WAAM and pressure machining influence. Engineering Research Express, 2021, 3, 045030.	0.8	1
18	Study on the hydrogen-induced delayed fracture behavior of Q-P980 and MS980. Materials Research Express, 2021, 8, 126510.	0.8	1

#	Article	IF	Citations
19	Effect of Continuous Annealing Temperature on the Microstructure, Mechanical Properties and Texture of Annealed Drawn and Ironed Plate. Crystals, 2021, 11, 1569.	1.0	5
20	Effect of the austenitizing temperature on the microstructure evolution and mechanical properties of Q&P steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138584.	2.6	15
21	Intercritical Annealing Processing and a New Type of Quenching and Partitioning Processing, Actualized by Combining Intercritical Quenching and Tempering, for Medium Manganese Lightweight Steel. Steel Research International, 2020, 91, 1900335.	1.0	9
22	Observation of hydrogen trapping at dislocations, grain boundaries, and precipitates. Science, 2020, 367, 171-175.	6.0	275
23	Strengthening mechanisms of Nb and V microalloying high strength hot-stamped steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140115.	2.6	55
24	Quasi-Situ Characterization of Retained Austenite Orientation in Quenching and Partitioning Steel via Uniaxial Tensile Tests. Materials, 2020, 13, 4609.	1.3	2
25	New crystallography insights of retained austenite transformation in an intercritical annealed quenching and partitioning steel. Materials Letters, 2020, 273, 127955.	1.3	9
26	Effects of rolling and coiling temperature on the microstructure and mechanical properties of hot-rolled high strength complex phase steel. Materials Research Express, 2019, 6, 0965c8.	0.8	3
27	Effect of quenching temperature on the microstructure and mechanical properties of 30MnBNbV hot stamping steel. Materials Research Express, 2019, 6, 1065e3.	0.8	3
28	Effect of microstructural evolution and fractographic properties on hole expandability of hot rolling complex phase steel with different coiling temperature. Materials Research Express, 2019, 6, 116564.	0.8	5
29	Microstructural evolution and strain hardening mechanism of a boron-containing metastable austenitic steel. Materials Science and Technology, 2019, 35, 2013-2023.	0.8	5
30	Complex Precipitation Mechanism of Ti-Nb-V Microalloyed Bainitic Base High Strength Steel. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1444-1450.	0.4	3
31	The relationship between microstructures and mechanical properties of vanadium microalloyed cold rolled ultrahigh strength steel treated by austempering. Materials Research Express, 2019, 6, 126543.	0.8	2
32	In-Situ Characterization of Deformation and Fracture Behavior of Hot-Rolled Medium Manganese Lightweight Steel. Jom, 2018, 70, 700-705.	0.9	4
33	Improved microstructural homogeneity and mechanical property of medium manganese steel with Mn segregation banding by alternating lath matrix. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 175-181.	2.6	38
34	A novel ultra-strong hot stamping steel treated by quenching and partitioning process. Materials Science and Technology, 2018, 34, 2241-2249.	0.8	17
35	A Study of the Optimum Quenching Temperature of Steels with Various Hot Rolling Microstructures after Cold Rolling, Quenching and Partitioning Treatment. Metals, 2018, 8, 579.	1.0	7
36	Effects of boron on mechanical properties of a hot-rolled 13% Mn metastable austenitic steel. Materials Letters, 2018, 233, 314-317.	1.3	11

#	Article	IF	Citations
37	Microstructure evolution and mechanical properties influenced by austenitizing temperature in aluminum-alloyed TRIP-aided steel. Journal of Iron and Steel Research International, 2017, 24, 1115-1124.	1.4	3
38	Mechanical properties and characteristics of nanometer-sized precipitates in hot-rolled low-carbon ferritic steel. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 266-272.	2.4	14
39	Precipitation Behavior and Textural Evolution of Cold-Rolled High Strength Deep Drawing Dual-Phase Steels. Journal of Iron and Steel Research International, 2013, 20, 61-68.	1.4	9
40	Microstructures and mechanical properties of C-Mn-Cr-Nb and C-Mn-Si-Nb ultra-high strength dual-phase steels. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 915-922.	2.4	9