

Zheng-zhi Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

615
citations

932766

10
h-index

642321

23
g-index

40
all docs

40
docs citations

40
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of hydrogen trapping at dislocations, grain boundaries, and precipitates. <i>Science</i> , 2020, 367, 171-175.	6.0	275
2	Strengthening mechanisms of Nb and V microalloying high strength hot-stamped steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 140115.	2.6	55
3	Improved microstructural homogeneity and mechanical property of medium manganese steel with Mn segregation banding by alternating lath matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 175-181.	2.6	38
4	Effect of vanadium on hydrogen embrittlement susceptibility of high-strength hot-stamped steel. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 211-222.	1.4	23
5	A 2000MPa grade Nb bearing hot stamping steel with ultra-high yield strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140419.	2.6	19
6	A novel ultra-strong hot stamping steel treated by quenching and partitioning process. <i>Materials Science and Technology</i> , 2018, 34, 2241-2249.	0.8	17
7	Effect of the austenitizing temperature on the microstructure evolution and mechanical properties of Q&P steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138584.	2.6	15
8	Mechanical properties and characteristics of nanometer-sized precipitates in hot-rolled low-carbon ferritic steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 266-272.	2.4	14
9	The mechanism of substructure formation and grain growth 316L stainless steel by selective laser melting. <i>Materials Research Express</i> , 2021, 8, 096510.	0.8	13
10	Interaction between dislocations, precipitates and hydrogen atoms in a 2000MPa grade hot-stamped steel. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4353-4366.	2.6	12
11	Effects of boron on mechanical properties of a hot-rolled 13% Mn metastable austenitic steel. <i>Materials Letters</i> , 2018, 233, 314-317.	1.3	11
12	316L FFF binder development and debinding optimization. <i>Materials Research Express</i> , 2021, 8, 116515.	0.8	10
13	Microstructures and mechanical properties of C-Mn-Cr-Nb and C-Mn-Si-Nb ultra-high strength dual-phase steels. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 915-922.	2.4	9
14	Precipitation Behavior and Textural Evolution of Cold-Rolled High Strength Deep Drawing Dual-Phase Steels. <i>Journal of Iron and Steel Research International</i> , 2013, 20, 61-68.	1.4	9
15	Intercritical Annealing Processing and a New Type of Quenching and Partitioning Processing, Actualized by Combining Intercritical Quenching and Tempering, for Medium Manganese Lightweight Steel. <i>Steel Research International</i> , 2020, 91, 1900335.	1.0	9
16	New crystallography insights of retained austenite transformation in an intercritical annealed quenching and partitioning steel. <i>Materials Letters</i> , 2020, 273, 127955.	1.3	9
17	Microstructure, property and deformation and fracture behavior of 800MPa complex phase steel with different coiling temperatures. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 346-359.	1.4	8
18	A Study of the Optimum Quenching Temperature of Steels with Various Hot Rolling Microstructures after Cold Rolling, Quenching and Partitioning Treatment. <i>Metals</i> , 2018, 8, 579.	1.0	7

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19	Effect of microstructure evolution on L ₄₅ strain and tensile properties in an intercritical annealing medium-Mn steel. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 762-772.	1.4	6
20	Effect of microstructural evolution and fractographic properties on hole expandability of hot rolling complex phase steel with different coiling temperature. <i>Materials Research Express</i> , 2019, 6, 116564.	0.8	5
21	Microstructural evolution and strain hardening mechanism of a boron-containing metastable austenitic steel. <i>Materials Science and Technology</i> , 2019, 35, 2013-2023.	0.8	5
22	Effect of Continuous Annealing Temperature on the Microstructure, Mechanical Properties and Texture of Annealed Drawn and Ironed Plate. <i>Crystals</i> , 2021, 11, 1569.	1.0	5
23	In-Situ Characterization of Deformation and Fracture Behavior of Hot-Rolled Medium Manganese Lightweight Steel. <i>Jom</i> , 2018, 70, 700-705.	0.9	4
24	In-situ neutron diffraction investigation of two-stage martensitic transformation in a 13%Mn steel with serrated deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142955.	2.6	4
25	Microstructure evolution and mechanical properties influenced by austenitizing temperature in aluminum-alloyed TRIP-aided steel. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 1115-1124.	1.4	3
26	Effects of rolling and coiling temperature on the microstructure and mechanical properties of hot-rolled high strength complex phase steel. <i>Materials Research Express</i> , 2019, 6, 0965c8.	0.8	3
27	Effect of quenching temperature on the microstructure and mechanical properties of 30MnBNbV hot stamping steel. <i>Materials Research Express</i> , 2019, 6, 1065e3.	0.8	3
28	Complex Precipitation Mechanism of Ti-Nb-V Microalloyed Bainitic Base High Strength Steel. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 1444-1450.	0.4	3
29	Effect of V Addition on Microstructure and Mechanical Properties in Mn-Si Steels after Quenching and Partitioning Processes. <i>Metals</i> , 2021, 11, 1306.	1.0	3
30	Analysis of the relationship between microstructure and mechanical properties of intercritically annealed 3.5Mn steel. <i>Materials Research Express</i> , 2021, 8, 086517.	0.8	3
31	Microstructure and Mechanical Properties of a Novel Ultra-High Strength Hot-Stamped Steel with High Hardenability. <i>Steel Research International</i> , 2022, 93, .	1.0	3
32	The relationship between microstructures and mechanical properties of vanadium microalloyed cold rolled ultrahigh strength steel treated by austempering. <i>Materials Research Express</i> , 2019, 6, 126543.	0.8	2
33	Quasi-Situ Characterization of Retained Austenite Orientation in Quenching and Partitioning Steel via Uniaxial Tensile Tests. <i>Materials</i> , 2020, 13, 4609.	1.3	2
34	0.1%Ti medium manganese steel treated by quenching and tempering process. <i>Materials Science and Technology</i> , 2022, 38, 1490-1500.	0.8	2
35	Microstructure and wear mechanism of high-strength steels for concrete mixing drum coiled at different temperatures. <i>Ironmaking and Steelmaking</i> , 2021, 48, 351-358.	1.1	1
36	Effect of Mn pre-partition before cold rolling on austenite reversion and mechanical properties of 3.5Mn steel. <i>Ironmaking and Steelmaking</i> , 2022, 49, 123-130.	1.1	1

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37	316L WAAM and pressure machining influence. Engineering Research Express, 2021, 3, 045030.	0.8	1
38	Study on the hydrogen-induced delayed fracture behavior of Q-P980 and MS980. Materials Research Express, 2021, 8, 126510.	0.8	1
39	Distribution of Nonmetallic Inclusions in Slab for Tinplate. Metals, 2022, 12, 679.	1.0	1
40	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