Ren-bo Song

List of Publications by Year in descending order

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394421 434195 1,131 61 19 31 citations h-index g-index papers 61 61 61 856 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Characteristics of Mechanical Properties and Microstructure for 316L Austenitic Stainless Steel. Journal of Iron and Steel Research International, 2011, 18, 53-59.	2.8	82
2	Tensile deformation of low density duplex Fe–Mn–Al–C steel. Materials & Design, 2015, 76, 32-39.	5.1	81
3	Work hardening behavior involving the substructural evolution of an austenite–ferrite Fe–Mn–Al–C steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 225-234.	5.6	79
4	Effect of annealing temperature on the microstructure and tensile properties of Fe–10Mn–10Al–0.7C low-density steel. Materials and Design, 2016, 91, 348-360.	7.0	61
5	Evolution of the microstructure and mechanical properties of an austenite–ferrite Fe–Mn–Al–C steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 643, 183-193.	5.6	51
6	Microstructural evolution and tensile properties of 70†GPa·% grade strong and ductile hot-rolled 6Mn steel treated by intercritical annealing. Materials Science & mp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 212-220.	5.6	51
7	Hot Deformation and Dynamic Recrystallization Behavior of Austenite-Based Low-Density Fe–Mn–Al–C Steel. Acta Metallurgica Sinica (English Letters), 2016, 29, 441-449.	2.9	47
8	Effect of anodic T phase on surface micro-galvanic corrosion of biodegradable Mg-Zn-Zr-Nd alloys. Applied Surface Science, 2018, 462, 243-254.	6.1	46
9	Multiphase steel with improved impact-abrasive wear resistance in comparison with conventional Hadfield steel. Materials and Design, 2016, 105, 96-105.	7.0	39
10	Effect of Aging Isothermal Time on the Microstructure and Room-Temperature Impact Toughness of Fe–24.8Mn–7.3Al–1.2C Austenitic Steel with κ-Carbides Precipitation. Metals and Materials International, 2018, 24, 1012-1023.	3.4	33
11	Surface corrosion behavior and reaction product film deposition mechanism of Mg-Zn-Zr-Nd alloys during degradation process in Hank's solution. Surface and Coatings Technology, 2018, 342, 57-68.	4.8	33
12	The formation of TiC–NbC core-shell structure in hypereutectic high chromium cast iron leads to significant refinement of primary M7C3. Journal of Alloys and Compounds, 2020, 824, 153806.	5.5	30
13	Surface failure behavior of 70Mn martensite steel under abrasive impact wear. Wear, 2016, 362-363, 129-134.	3.1	25
14	Dependence of austenite stability and deformation behavior on tempering time in an ultrahigh strength medium Mn TRIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 153-162.	5.6	25
15	Effect of heat treatment on bonding mechanism and mechanical properties of high strength Cu/Al/Cu clad composite. Journal of Alloys and Compounds, 2019, 801, 573-580.	5.5	25
16	Dynamic Deformation Behavior of Dual Phase Ferritic-Martensitic Steel at Strain Rates From 10â°'4 to 2000 sâ°'1. Journal of Iron and Steel Research International, 2013, 20, 48-53.	2.8	24
17	Effect of microstructure evolution on tensile fracture behavior of Mg-2Zn-1Nd-0.6Zr alloy for biomedical applications. Materials and Design, 2019, 182, 108038.	7.0	24
18	Effect of Tempering Temperature on Microstructures and Wear Behavior of a 500 HB Grade Wear-Resistant Steel. Metals, 2019, 9, 45.	2.3	23

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19	Grain size refinement and effect on the tensile properties of a novel low-cost stainless steel. Materials Letters, 2020, 260, 126919.	2.6	22
20	Dimensionality wear analysis: Three-body impact abrasive wear behavior of a martensitic steel in comparison with Mn13Cr2. Wear, 2018, 414-415, 341-351.	3.1	21
21	Non-destructive corrosion study on a magnesium alloy with mechanical properties tailored for biodegradable cardiovascular stent applications. Journal of Materials Science and Technology, 2021, 66, 128-138.	10.7	20
22	Study of the three-body impact abrasive wear behaviour of a low alloy steel reinforced with niobium. Journal of Manufacturing Processes, 2019, 46, 185-193.	5.9	19
23	Wear Behavior and Hardening Mechanism of Novel Lightweight Fe–25.1Mn–6.6Al–1.3C Steel Under Impact Abrasion Conditions. Tribology Letters, 2016, 64, 1.	2.6	18
24	Abrasive wear behavior and mechanism of high chromium cast iron. Journal of Iron and Steel Research International, 2015, 22, 84-90.	2.8	17
25	Enhanced Strength and Corrosion Resistance of Mg–2Zn–0.6Zr Alloy with Extrusion. Acta Metallurgica Sinica (English Letters), 2019, 32, 10-22.	2.9	16
26	Wear behavior of bainite ductile cast iron under impact load. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 871-877.	4.9	14
27	Effect of Nb contents on microstructure characteristics and yielding behavior of Fe–4Mn–2Al-0.2C steel. Materials Science & Degrate and Processing, 2021, 819, 141457.	5.6	14
28	Solid State Synthesis of Ternary Thermoelectric Magnesium Alloy, Mg ₂ Si _{1−<i>x</i>} Sn <i>_x</i> . Materials Transactions, 2006, 47, 1058-1065.	1.2	13
29	Abrasive Wear Behaviors of Light-weight Austenitic Fe-24Mn-7Al-1C Steel and Mn13Cr2 Steel. Journal of Iron and Steel Research International, 2016, 23, 857-866.	2.8	12
30	Correlation between cementite precipitation and Portevin-Le Chatelier effect in a hot-rolled medium Mn steel. Materials Letters, 2020, 258, 126796.	2.6	12
31	Aging hardening and precipitation behavior of Fe-31.6Mn-8.8Al-1.38C austenitic cast steel. Vacuum, 2020, 181, 109662.	3.5	12
32	Microstructures and Impact Wear Behavior of Al-Alloyed High-Mn Austenitic Cast Steel After Aging Treatment. Journal of Materials Engineering and Performance, 2019, 28, 4845-4855.	2.5	11
33	Revealing working hardening behavior and substructure evolutions of ultrahigh strength and enhanced wear resistance Fe–25Mn–7Al–1C steel treated by explosion processing. Journal of Materials Science, 2020, 55, 1256-1268.	3.7	10
34	The synergistic effect of deformation twins and polycrystalline structure on strain hardening in a high-SFE Fe-Mn-Al-C austenitic cast steel in compression. Materials Letters, 2020, 272, 127814.	2.6	10
35	Hot Deformation Behavior of V–Ti Microalloy Steels. Steel Research International, 2021, 92, .	1.8	10
36	Precipitation evolution, strengthening and toughening mechanisms of Fe–3Si–2Cu (in wt.%) steel during aging process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140863.	5 . 6	10

#	Article	IF	CITATIONS
37	Hot ductility behavior of a Fe-0.3C-9Mn-2Al medium Mn steel. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 422-429.	4.9	9
38	Effects of Temperature and Strain Rate on Solid-/Liquid-Phase Flow Behavior of 9Cr18 Steel During Thixoforging. Acta Metallurgica Sinica (English Letters), 2017, 30, 567-575.	2.9	8
39	Influence of Nb Addition on Microstructure and Mechanical Properties of Mediumâ€Mn Lowâ€Density Steels. Steel Research International, 2018, 89, 1700552.	1.8	8
40	Effect of the Austenitizing Temperature on Microstructure Evolution and Impact Toughness of a Novel Bainite Ductile Iron. Metals and Materials International, 2020, 27, 4014.	3.4	7
41	The precipitation evolution and mechanism of micro-sized NbC in the melt of Fe-25wt.%Cr-3.5wt.%C-2.0wt.%Nb alloy. Materials Characterization, 2022, 183, 111611.	4.4	7
42	Influence of Annealing Temperature on Microstructure and Three-Stage Strain Hardening Behavior in Cold-Rolled Fe-Mn-Al-C Steel. Jom, 2019, 71, 4105-4113.	1.9	6
43	Decreasing yield ratio of 70 GPa·% grade hot-rolled medium Mn steel by weakening multi-strengthening effects. Vacuum, 2019, 170, 108972.	3.5	6
44	Microstructure characteristics and impact fracture mechanisms of Nb and V–Ti micro-alloyed offshore platform steels. Vacuum, 2022, 195, 110709.	3.5	6
45	Phase Transformation and Carbide Precipitation of Functional Gradient Semi-solid 9Cr18 Steel. Acta Metallurgica Sinica (English Letters), 2018, 31, 823-830.	2.9	5
46	Compression Deformation Behavior of a Fe–26Mn–7Al–1.3C Austenitic Steel after Precipitationâ€Hardened Treatment. Steel Research International, 2019, 90, 1800571.	1.8	5
47	Microstructure, mechanical properties and tribological behavior of a novel low-alloy high strength Mg–2Zn-0.5Zr-0.5Nd alloy. Vacuum, 2020, 179, 109518.	3.5	5
48	Constitutive Modeling for Thixoforming of 9Cr18 Semi-solid Alloy and 3D Forecast Mapping. Journal of Iron and Steel Research International, 2016, 23, 1309-1315.	2.8	3
49	Strain Rate Effect on Microstructural Evolution and Deformation Behavior of Mediumâ€Mn Transformationâ€Induced Plasticity Steels. Steel Research International, 2021, 92, .	1.8	3
50	Phase Transformation and Precipitation Mechanism of Nb Microalloyed Bainite–Martensite Offshore Platform Steel at Different Cooling Rates. Steel Research International, 2019, 90, 1900224.	1.8	2
51	Effect of three-staged normalizing on the impact wear resistance of 3.23 mass% Cr-Mn-Cu-Si cast iron. Wear, 2019, 426-427, 59-67.	3.1	2
52	Role of Subordinate Phases on the Dry Impact-Abrasion Behavior of Low Chromium Cast Iron. Metals and Materials International, 2020, 26, 1797-1805.	3.4	2
53	Comprehensive Influence of the Normalized and Final Annealing Process on Highâ€Strength Nonoriented Silicon Steel. Steel Research International, 2022, 93, .	1.8	2
54	Hot Deformation Behavior of NM550 Wear-Resistant Steel., 2015,, 873-879.		1

#	Article	IF	Citations
55	The Influence of Holding Time on the Microstructure and Mechanical Properties of a 58CrMnSiNiMo Wearâ€Resistant Cast Steel during Diffusion Annealing. Steel Research International, 2019, 90, 1900130.	1.8	1
56	Transition region: It is crucial to study the failure of 2.86†wt%Cr Si Mn Cu iron alloy under impact wear. Vacuum, 2019, 160, 429-433.	3.5	1
57	Internal cracking with crystal lattice failure of 2.93wt%Cr-Mn-Cu-Si iron under impact-abrasion. Vacuum, 2019, 164, 219-223.	3.5	1
58	Slanted Blades Optimizing Grain Texture and Work Hardening of Nonâ€Oriented Electrical Steel in Stress Coverages during Shearing and Blanking Processes. Steel Research International, 0, , 2100233.	1.8	1
59	Microstructure Evolution and Mechanical Properties of Grade E690 Offshore Platform Steel. , 0, , 1117-1123.		O
60	Phase Transformation During Continuous Cooling of NM550 Wear-Resistant Steel., 0,, 835-841.		0
61	Formability of 800 MPa Grade Hotâ€Dip Galvanized Steel Sheet. Steel Research International, 2018, 89, 1800154.	1.8	0