Hai-wen Luo

List of Publications by Year in descending order

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218381 155451 3,165 72 26 55 h-index citations g-index papers 74 74 74 1691 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Theory for Heterogonous Recrystallization Kinetics in Metals. , 2022, , 561-567.		O
2	A strong and ductile medium Mn steel manufactured via ultrafast heating process. Journal of Materials Science and Technology, 2022, 97, 54-68.	5.6	29
3	On the mechanism of Mn partitioning during intercritical annealing in medium Mn steels. Acta Materialia, 2022, 225, 117601.	3.8	32
4	Effects of laser beam oscillation welding parameters on Al-Si coated 22MnB5 weld joint properties. Optics and Laser Technology, 2022, 149, 107898.	2.2	14
5	A Dual-Phase Press-Hardening Steel with Improved Mechanical Properties and Superior Oxidation Resistance. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 1934-1944.	1.1	6
6	Progress on statistical models of evaluating inclusions in clean steels. Journal of Iron and Steel Research International, 2022, 29, 1153-1163.	1.4	11
7	Yielding behavior of triplex medium Mn steel alternated with cooling strategies altering martensite/ferrite interfacial feature. Journal of Materials Science and Technology, 2022, 126, 60-70.	5.6	16
8	Mechanism and Application of Reverse Austenitic Transformation in Medium Mn Steels: A Systematic Review. Steel Research International, 2022, 93, .	1.0	4
9	Prominent work hardening and ultrahigh yield strength both realized in 3Mn steel multiply alloyed with Cu/Ni/Al/V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143473.	2.6	1
10	Effect of welding speed on microstructure and mechanical behavior of laser welded Al-Si coated 22MnB5 steel. Optics and Laser Technology, 2022, 154, 108344.	2.2	15
11	A novel medium-Mn steel with superior mechanical properties and marginal oxidization after press hardening. Acta Materialia, 2021, 205, 116567.	3.8	45
12	Improved mechanical properties of V-microalloyed dual phase steel by enhancing martensite deformability. Journal of Materials Science and Technology, 2021, 75, 139-153.	5.6	13
13	Why Does Nitriding of Grainâ€Oriented Silicon Steel Become Slower at Higher Temperature?. Steel Research International, 2021, 92, 2000545.	1.0	O
14	Multiphase-field simulation of austenite reversion in medium-Mn steels. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 847-853.	2.4	5
15	Medium-Mn steels for hot forming application in the automotive industry. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 741-753.	2.4	29
16	Influence of lamellar and equiaxed microstructural morphologies on yielding behaviour of a medium Mn steel. Materialia, 2021, 20, 101252.	1.3	8
17	A novel cold-rolled medium Mn steel with an ultra-high product of tensile strength and elongation. Materials Letters, 2020, 258, 126804.	1.3	12
18	Effect of flash processing on recrystallization behavior and mechanical performance of cold-rolled IF steel. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1234-1243.	2.4	8

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19	Effect of warm rolling process on microstructures and tensile properties of 10†Mn steel. Journal of Materials Science and Technology, 2020, 47, 131-141.	5.6	16
20	Influence of refined hierarchical martensitic microstructures on yield strength and impact toughness of ultra-high strength stainless steel. Journal of Materials Science and Technology, 2020, 51, 130-136.	5 . 6	141
21	A novel two-step intercritical annealing process to improve mechanical properties of medium Mn steel. Acta Materialia, 2019, 176, 250-263.	3.8	73
22	Solidified microstructures and elastic modulus of hypo-eutectic and hyper-eutectic TiB2-reinforced high-modulus steel. Acta Materialia, 2019, 176, 84-95.	3.8	13
23	Super-high-strength and formable medium Mn steel manufactured by warm rolling process. Acta Materialia, 2019, 174, 131-141.	3 . 8	103
24	A Novel Shim-Assisted Resistance Spot Welding Process to Improve Weldability of Medium-Mn Transformation-Induced Plasticity Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1-9.	1.0	23
25	The relationship between 100Cr6 steelmaking, inclusion microstructure and rolling contact fatigue performance. International Journal of Fatigue, 2019, 129, 104899.	2.8	37
26	On the characteristics of Portevin–Le Chatelier bands in cold-rolled 7Mn steel showing transformation-induced plasticity. International Journal of Plasticity, 2018, 103, 188-202.	4.1	88
27	Recrystallisation-assisted creep of an austenitic Fe-Ni alloy under low stresses after hot deformation. Acta Materialia, 2018, 153, 23-34.	3.8	8
28	Influence of Nb and V on Microstructure and Mechanical Properties of Hot–Rolled Medium Mn Steels. Steel Research International, 2018, 89, 1700389.	1.0	18
29	Determination of the intrinsic $\hat{l}\pm\hat{l}^3$ interface mobility during massive transformations in interstitial free Fe-X alloys. Acta Materialia, 2017, 133, 258-268.	3.8	35
30	In-situ measurement and numerical simulation of nitriding kinetics of grain-oriented silicon steel. International Journal of Hydrogen Energy, 2017, 42, 10901-10910.	3.8	7
31	Effects of intercritical annealing process on microstructures and tensile properties of cold-rolled 7Mn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 115-122.	2.6	76
32	High dislocation density–induced large ductility in deformed and partitioned steels. Science, 2017, 357, 1029-1032.	6.0	729
33	A strong and ductile 7Mn steel manufactured by warm rolling and exhibiting both transformation and twinning induced plasticity. Journal of Alloys and Compounds, 2017, 725, 684-693.	2.8	77
34	Hot deformation characterization of ultrahigh strength stainless steel through processing maps generated using different instability criteria. Materials Characterization, 2017, 131, 480-491.	1.9	35
35	Recent progress in medium-Mn steels made with new designing strategies, a review. Journal of Materials Science and Technology, 2017, 33, 1457-1464.	5 . 6	192
36	A thermodynamic model on predicting density of medium-Mn steels with experimental verification. Journal of Iron and Steel Research International, 2017, 24, 1078-1084.	1.4	4

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37	Microstructures and Mechanical Properties of 7Mn Steel Manufactured by Different Rolling Processes. Metals, 2017, 7, 464.	1.0	17
38	Experimental investigation on a novel medium Mn steel combining transformation-induced plasticity and twinning-induced plasticity effects. International Journal of Plasticity, 2016, 78, 173-186.	4.1	125
39	A Novel Observation on Cementite Formed During Intercritical Annealing of Medium Mn Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3119-3124.	1.1	47
40	Complicated Interaction of Dynamic Recrystallization and Precipitation During Hot Deformation of Ultrahigh-Strength Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6248-6258.	1.1	9
41	An Analytical Approach to Model Heterogonous Recrystallization Kinetics Taking into Account the Natural Spatial Inhomogeneity of Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 231-238.	1.1	4
42	Mn Diffusion at Early Stage of Intercritical Annealing of 5Mn Steel. Journal of Iron and Steel Research International, 2015, 22, 1015-1019.	1.4	9
43	New ultrahigh-strength Mn-alloyed TRIP steels with improved formability manufactured by intercritical annealing. Materials Science & Structural Materials: Properties, Microstructure and Processing, 2015, 626, 207-212.	2.6	58
44	Effect of intercritical annealing on the LÃ $\frac{1}{4}$ ders strains of medium Mn transformation-induced plasticity steels. Materials and Design, 2015, 83, 42-48.	3.3	132
45	Modeling decarburization kinetics of grain-oriented silicon steel. Science Bulletin, 2014, 59, 1778-1783.	1.7	7
46	Experimental and numerical analysis of influence of carbide on austenitisation kinetics in 5Mn TRIP steel. Materials Science and Technology, 2014, 30, 1367-1377.	0.8	37
47	Nanoindentation investigation on the mechanical stability of individual austenite grains in a medium-Mn transformation-induced plasticity steel. Scripta Materialia, 2013, 69, 215-218.	2.6	119
48	Effect of Heating Process on Retained Austenite of Mn-TRIP Steel. Materials Science Forum, 2013, 762, 104-109.	0.3	0
49	Grain Growth in Nb-Alloyed Stainless Steel of AISI 347 during Heating. Materials Science Forum, 2013, 753, 345-348.	0.3	2
50	Comments on "Austenite stability of ultrafine-grained transformation-induced plasticity steel with Mn partitioning―by S. Lee, S.J. Lee and B.C. De Cooman, Scripta Materialia 65 (2011) 225–228. Scripta Materialia, 2012, 66, 829-831.	2.6	32
51	Effect of concurrent recovery on Avrami exponent of the softening kinetics after hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 44-49.	2.6	10
52	Thermodynamic and kinetic analysis of dynamic strain-induced transformation during hot deformation in plain carbon steels. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8259-8262.	2.6	4
53	Experimental and numerical analysis on formation of stable austenite during the intercritical annealing of 5Mn steel. Acta Materialia, 2011, 59, 4002-4014.	3.8	348
54	Microstructural Evolution and Kinetics for Post-dynamic Transformation in a Plain Low Carbon Steel. ISIJ International, 2008, 48, 994-1000.	0.6	46

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55	Constitutive Analysis in Hot Working of a Nb Heavily Alloyed Stainless Steel. Journal of Iron and Steel Research International, 2007, 14, 179-182.	1.4	2
56	Constitutive Analysis of Stress-Strain Curves of a High-Nitrogen Austenitic Stainless Steel. Journal of Iron and Steel Research International, 2007, 14, 335-338.	1.4	4
57	Effect of Strain Rate on the Subsequent Softening and Precipitation Kinetics in a Nb-Microalloyed Steel. Steel Research International, 2005, 76, 650-655.	1.0	0
58	Influence of Cu alloying on hot ductility of C-Mn-Al and Ti-Nb microalloyed steels. Revista De Metalurgia, 2005, 41, 407-411.	0.1	5
59	Recovery Processes in the Ferrite Phase in C-Mn Steel. ISIJ International, 2004, 44, 1188-1194.	0.6	26
60	Modelling Recovery and Recrystallisation Kinetics after Intercritical Deformation in 0.19 wt% C 1.5 wt% Mn Steel. Materials Science Forum, 2004, 467-470, 329-334.	0.3	1
61	Characteristics of the Static Recrystallization Kinetics of an Intercritically Deformed C-Mn Steel. Materials Science Forum, 2004, 467-470, 293-298.	0.3	4
62	A metallurgical interpretation of the static recrystallization kinetics of an intercritically deformed C-Mn steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1889-1898.	1.1	31
63	A novel observation of strain-induced ferrite-to-austenite retransformation after intercritical deformation of C-Mn steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2789-2797.	1.1	28
64	Effect of Inhomogeneous Deformation on the Recrystallization Kinetics of Deformed Metals. ISIJ International, 2004, 44, 1931-1936.	0.6	21
65	Effect of Intercritical Deformation on Bainite Formation in Al-containing TRIP Steel. ISIJ International, 2003, 43, 1219-1227.	0.6	26
66	The Influence of Ti on the Hot Ductility of Nb-bearing Steels in Simulated Continuous Casting Process ISIJ International, 2002, 42, 273-282.	0.6	33
67	Effect of molybdenum and temperature reduction on hot ductility of 0·2C–Mn steels. Ironmaking and Steelmaking, 2001, 28, 439-443.	1.1	3
68	Effect of boron on hot ductility oflow carbon low alloyed steel. Materials Science and Technology, 2001, 17, 843-846.	0.8	13
69	Influence of excess titanium on hot ductility of C-Mn-Cr-Al steel. Materials Science and Technology, 2001, 17, 1589-1595.	0.8	5
70	Interaction between inclusion particles on the stainless-steel melt surface. Scandinavian Journal of Metallurgy, 2001, 30, 212-219.	0.3	11
71	Behavior of Slag Foaming Caused by Blowing Gas in Molten Slags ISIJ International, 2000, 40, 954-957.	0.6	21
72	Characteristics of Dynamic Recrystallization during Hot Deformation for High Nitrogen Stainless Steels. Materials Science Forum, 0, 715-716, 115-121.	0.3	0