Hai-wen Luo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1055612/publications.pdf

Version: 2024-02-01

72	3,165	218677	155660
papers	citations	26 h-index	55 g-index

74	74	74	1691
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theory for Heterogonous Recrystallization Kinetics in Metals. , 2022, , 561-567.		0
2	A strong and ductile medium Mn steel manufactured via ultrafast heating process. Journal of Materials Science and Technology, 2022, 97, 54-68.	10.7	29
3	On the mechanism of Mn partitioning during intercritical annealing in medium Mn steels. Acta Materialia, 2022, 225, 117601.	7.9	32
4	Effects of laser beam oscillation welding parameters on Al-Si coated 22MnB5 weld joint properties. Optics and Laser Technology, 2022, 149, 107898.	4.6	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.	2.2	6
6	Progress on statistical models of evaluating inclusions in clean steels. Journal of Iron and Steel Research International, 2022, 29, 1153-1163.	2.8	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.	10.7	16
8	Mechanism and Application of Reverse Austenitic Transformation in Medium Mn Steels: A Systematic Review. Steel Research International, 2022, 93, .	1.8	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.	5.6	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.	4.6	15
11	A novel medium-Mn steel with superior mechanical properties and marginal oxidization after press hardening. Acta Materialia, 2021, 205, 116567.	7.9	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.	10.7	13
13	Why Does Nitriding of Grainâ€Oriented Silicon Steel Become Slower at Higher Temperature?. Steel Research International, 2021, 92, 2000545.	1.8	0
14	Multiphase-field simulation of austenite reversion in medium-Mn steels. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 847-853.	4.9	5
15	Medium-Mn steels for hot forming application in the automotive industry. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 741-753.	4.9	29
16	Influence of lamellar and equiaxed microstructural morphologies on yielding behaviour of a medium Mn steel. Materialia, 2021, 20, 101252.	2.7	8
17	A novel cold-rolled medium Mn steel with an ultra-high product of tensile strength and elongation. Materials Letters, 2020, 258, 126804.	2.6	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.	4.9	8

#	Article	IF	Citations
19	Effect of warm rolling process on microstructures and tensile properties of 10â€¯Mn steel. Journal of Materials Science and Technology, 2020, 47, 131-141.	10.7	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.	10.7	141
21	A novel two-step intercritical annealing process to improve mechanical properties of medium Mn steel. Acta Materialia, 2019, 176, 250-263.	7.9	73
22	Solidified microstructures and elastic modulus of hypo-eutectic and hyper-eutectic TiB2-reinforced high-modulus steel. Acta Materialia, 2019, 176, 84-95.	7.9	13
23	Super-high-strength and formable medium Mn steel manufactured by warm rolling process. Acta Materialia, 2019, 174, 131-141.	7.9	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.	2.1	23
25	The relationship between 100Cr6 steelmaking, inclusion microstructure and rolling contact fatigue performance. International Journal of Fatigue, 2019, 129, 104899.	5.7	37
26	On the characteristics of Portevinâ€“Le Chatelier bands in cold-rolled 7Mn steel showing transformation-induced plasticity. International Journal of Plasticity, 2018, 103, 188-202.	8.8	88
27	Recrystallisation-assisted creep of an austenitic Fe-Ni alloy under low stresses after hot deformation. Acta Materialia, 2018, 153, 23-34.	7.9	8
28	Influence of Nb and V on Microstructure and Mechanical Properties of Hotâ€“Rolled Medium Mn Steels. Steel Research International, 2018, 89, 1700389.	1.8	18
29	Determination of the intrinsic Î±/Î³ interface mobility during massive transformations in interstitial free Fe-X alloys. Acta Materialia, 2017, 133, 258-268.	7.9	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.	7.1	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.	5.6	76
32	High dislocation densityâ€“induced large ductility in deformed and partitioned steels. Science, 2017, 357, 1029-1032.	12.6	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.	5.5	77
34	Hot deformation characterization of ultrahigh strength stainless steel through processing maps generated using different instability criteria. Materials Characterization, 2017, 131, 480-491.	4.4	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.	10.7	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.	2.8	4

#	Article	IF	Citations
37	Microstructures and Mechanical Properties of 7Mn Steel Manufactured by Different Rolling Processes. Metals, 2017, 7, 464.	2.3	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.	8.8	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.	2.2	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.	2.2	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.	2.2	4
42	Mn Diffusion at Early Stage of Intercritical Annealing of 5Mn Steel. Journal of Iron and Steel Research International, 2015, 22, 1015-1019.	2.8	9
43	New ultrahigh-strength Mn-alloyed TRIP steels with improved formability manufactured by intercritical annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 207-212.	5.6	58
44	Effect of intercritical annealing on the LÃ¼ders strains of medium Mn transformation-induced plasticity steels. Materials and Design, 2015, 83, 42-48.	7.0	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.	1.6	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.	5.2	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 â€œAustenite stability of ultrafine-grained transformation-induced plasticity steel with Mn partitioningâ€•by S. Lee, S.J. Lee and B.C. De Cooman, Scripta Materialia 65 (2011) 225â€“228. Scripta Materialia, 2012, 66, 829-831.	5.2	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.	5.6	10
52	Thermodynamic and kinetic analysis of dynamic strain-induced transformation during hot deformation in plain carbon steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8259-8262.	5.6	4
53	Experimental and numerical analysis on formation of stable austenite during the intercritical annealing of 5Mn steel. Acta Materialia, 2011, 59, 4002-4014.	7.9	348
54	Microstructural Evolution and Kinetics for Post-dynamic Transformation in a Plain Low Carbon Steel. ISIJ International, 2008, 48, 994-1000.	1.4	46

#	Article	IF	Citations
55	Constitutive Analysis in Hot Working of a Nb Heavily Alloyed Stainless Steel. Journal of Iron and Steel Research International, 2007, 14, 179-182.	2.8	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.	2.8	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.	1.8	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.	0.5	5
59	Recovery Processes in the Ferrite Phase in C-Mn Steel. ISIJ International, 2004, 44, 1188-1194.	1.4	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.	2.2	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.	2.2	28
64	Effect of Inhomogeneous Deformation on the Recrystallization Kinetics of Deformed Metals. ISIJ International, 2004, 44, 1931-1936.	1.4	21
65	Effect of Intercritical Deformation on Bainite Formation in Al-containing TRIP Steel. ISIJ International, 2003, 43, 1219-1227.	1.4	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.	1.4	33
67	Effect of molybdenum and temperature reduction on hot ductility of 0Â·2Câ€“Mn steels. Ironmaking and Steelmaking, 2001, 28, 439-443.	2.1	3
68	Effect of boron on hot ductility oflow carbon low alloyed steel. Materials Science and Technology, 2001, 17, 843-846.	1.6	13
69	Influence of excess titanium on hot ductility of C-Mn-Cr-Al steel. Materials Science and Technology, 2001, 17, 1589-1595.	1.6	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.	1.4	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