

Wen Yang

List of Publications by Year in descending order

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71
papers

1,233
citations

430754

18
h-index

454834

30
g-index

75
all docs

75
docs citations

75
times ranked

312
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of Inclusions in Low Carbon Al-Killed Steel during Ladle Furnace Refining and Calcium Treatment. <i>ISIJ International</i> , 2013, 53, 1401-1410.	0.6	166
2	Formation and Thermodynamics of Mg-Al-Ti-O Complex Inclusions in Mg-Al-Ti-Deoxidized Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 2057-2071.	1.0	54
3	Stability Diagram of Mg-Al-O System Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1809-1825.	1.0	54
4	Deformability of Oxide Inclusions in Tire Cord Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 803-811.	1.0	52
5	Cleanliness of Low Carbon Aluminum-Killed Steels during Secondary Refining Processes. <i>Steel Research International</i> , 2013, 84, 473-489.	1.0	43
6	Transient Evolution of Nonmetallic Inclusions During Calcium Treatment of Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 1841-1859.	1.0	41
7	Evolution of Oxide Inclusions in Si-Mn Killed Steels During Hot-Rolling Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2717-2730.	1.0	39
8	Transformation of Inclusions in Pipeline Steels During Solidification and Cooling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2267-2273.	1.0	36
9	Effect of Sulfur in Steel on Transient Evolution of Inclusions During Calcium Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 610-626.	1.0	35
10	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. <i>ISIJ International</i> , 2016, 56, 584-593.	0.6	34
11	Characterization of MnS Particles in Heavy Rail Steels Using Different Methods. <i>Steel Research International</i> , 2017, 88, 1600080.	1.0	27
12	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. <i>Jom</i> , 2013, 65, 1173-1180.	0.9	26
13	Characterization of the Three-Dimensional Morphology and Formation Mechanism of Inclusions in Linepipe Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 701-712.	1.0	26
14	Effect of Mold Electromagnetic Stirring and Final Electromagnetic Stirring on the Solidification Structure and Macrosegregation in Bloom Continuous Casting. <i>Steel Research International</i> , 2021, 92, 2000661.	1.0	26
15	Effect of Oxide Inclusions on the Magnetic Properties of Non-Oriented Electrical Steel. <i>Steel Research International</i> , 2018, 89, 1800047.	1.0	24
16	Transformation of cerium-containing inclusions in ultra-low-carbon aluminum-killed steels during solidification and cooling. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8197-8206.	2.6	22
17	Investigation on Non-Metallic Inclusions in LCAK Steel Produced by BOF-LF-FTSC Production Route. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 6-12.	1.4	21
18	Effect of interactions between Fe-Al alloy and MgO-based refractory on the generation of MgO·Al ₂ O ₃ spinel. <i>Ironmaking and Steelmaking</i> , 2020, 47, 424-431.	1.1	21

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19	Deformation and fracture of non-metallic inclusions in steel at different temperatures. Journal of Materials Research and Technology, 2020, 9, 15016-15022.	2.6	21
20	Characteristics of Alumina-Based Inclusions in Low Carbon Al-Killed Steel under No-Stirring Condition. Steel Research International, 2013, 84, 878-891.	1.0	20
21	Population Evolution of Oxide Inclusions in Ti-stabilized Ultra-low Carbon Steels after Deoxidation. Journal of Iron and Steel Research International, 2015, 22, 1069-1077.	1.4	20
22	Entrapment of Inclusions by Solidified Hooks at the Subsurface of Ultra-Low-Carbon Steel Slab. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3186-3199.	1.0	19
23	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1594-1612.	1.0	18
24	Effect of Cooling Rate on Oxide Inclusions During Solidification of 304 Stainless Steel. Steel Research International, 2019, 90, 1900027.	1.0	18
25	Formation and Deformation Mechanism of Al ₂ O ₃ -CaS Inclusions in Ca-Treated Non-Oriented Electrical Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 200-212.	1.0	17
26	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. Steel Research International, 2021, 92, 2000649.	1.0	17
27	Effect of nozzle type on fluid flow, solidification, and solute transport in mold with mold electromagnetic stirring. Journal of Iron and Steel Research International, 2022, 29, 237-246.	1.4	17
28	Effect of calcium treatment on magnetic properties of non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2020, 494, 165803.	1.0	15
29	Clogging Behavior of a Submerged Entry Nozzle for the Casting of Ca-Treated Al-Killed Ti-Bearing Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1186-1193.	1.0	15
30	Prediction of Calcium Yield During Calcium Treatment Process Performed in Steelmaking Using Neural Network. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1-7.	1.0	15
31	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. Powder Technology, 2021, 390, 539-554.	2.1	14
32	Effect of slag basicity adjusting on inclusions in tire cord steels during ladle furnace refining process. Metallurgical Research and Technology, 2017, 114, 602.	0.4	13
33	Kinetic Prediction for the Composition of Inclusions in the Molten Steel During the Electroslag Remelting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1521-1531.	1.0	13
34	Effect of Cooling Rate on the Formation of Nonmetallic Inclusions in X80 Pipeline Steel. Metals, 2019, 9, 392.	1.0	12
35	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. Ironmaking and Steelmaking, 2020, 47, 6-12.	1.1	12
36	Mechanism and Control of Sulfide Inclusion Accumulation in CET Zone of 37Mn5 Round Billet. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1004-1013.	1.0	11

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37	Large Eddy Simulation on Four-Phase Flow and Slag Entrainment in the Slab Continuous Casting Mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1446-1461.	1.0	11
38	Three-Dimensional Distribution of Hooks in Al-Killed Low-Carbon Continuous Casting Steel Slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2533-2549.	1.0	10
39	Formation Mechanism of MgO Containing Inclusions in the Molten Steel Refined in MgO Refractory Crucibles. Metals, 2020, 10, 444.	1.0	10
40	Clogging-Induced Asymmetrical and Transient Flow Pattern in a Steel Continuous Casting Slab Strand Measured Using Nail Boards. Steel Research International, 2021, 92, 2000547.	1.0	10
41	Three-Dimensional Characterization of Defects in Continuous Casting Blooms of Heavy Rail Steel Using X-ray Computed Tomography. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2327-2340.	1.0	9
42	Composition evolution and deformation of different non-metallic inclusions in a bearing steel during hot rolling. Journal of Iron and Steel Research International, 2022, 29, 552-562.	1.4	9
43	Comparison of 2D and 3D morphology of non-metallic inclusions in steel using different methods. Metallurgical Research and Technology, 2017, 114, 113.	0.4	8
44	Evolution of Non-metallic Inclusions and Precipitates in Oriented Silicon Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 926-932.	1.0	8
45	Precipitation of nitrides in non-oriented silicon steel. Ironmaking and Steelmaking, 2019, 46, 359-367.	1.1	8
46	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. Steel Research International, 2021, 92, 2000629.	1.0	8
47	Prediction of Spatial Composition Distribution of Inclusions in the Continuous Casting Bloom of a Bearing Steel under Unsteady Casting. ISIJ International, 2021, 61, 824-833.	0.6	7
48	Evolution of Nonmetallic Inclusions in GCr15 Bearing Steels During Continuous Casting Process. Steel Research International, 2022, 93, 2100445.	1.0	7
49	In Situ Observation and Prediction of the Transformation of Acicular Ferrites in Ti-Containing HSLA Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1827-1840.	1.0	7
50	Prediction on the three-dimensional spatial distribution of the number density of inclusions on the entire cross section of a steel continuous casting slab. International Journal of Heat and Mass Transfer, 2022, 190, 122789.	2.5	7
51	Effect of Selenium on the Interaction Between Refractory and Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1115-1123.	1.0	6
52	Determination of Transient Flow Pattern in Steel Continuous Casting Molds Using Nail Board Measurement and Onsite Top Flux Observation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1106-1117.	1.0	6
53	Effect of Casting Parameters on the Flow Pattern in a Steel Continuous Casting Slab Mold: Numerical Simulation and Industrial Trials. Steel Research International, 2022, 93, 2100350.	1.0	6
54	Evolution of Nonmetallic Inclusions with Varied Argon Stirring Condition during Vacuum Degassing Refining of a Bearing Steel. Steel Research International, 2021, 92, 2000364.	1.0	5

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55	Three-Dimensional Spatial Distribution of Non-metallic Inclusions on the Entire Cross Section of a Steel Continuous Casting Slab. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3497-3514.	1.0	5
56	Evolution of inclusions in a pipeline steel during continuous casting and hot rolling process. <i>Journal of Iron and Steel Research International</i> , 2022, 29, 175-185.	1.4	5
57	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. <i>Metals</i> , 2022, 12, 181.	1.0	5
58	Effect of Types of Calcium-Containing Cored Wires on the Inclusion Modification by Calcium Treatment. <i>Steel Research International</i> , 2022, 93, .	1.0	5
59	Pinning Effect of Oxide Particles on Grain Boundaries of a Low Aluminum Non-oriented Electrical Steel. <i>Steel Research International</i> , 2020, 91, 1900303.	1.0	4
60	Modelling of non-metallic inclusions in steel. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2020, 129, 184-206.	0.1	4
61	Water Modeling on Circulating Flow and Mixing Time in a Ruhrstahl-Heraeus Vacuum Degasser. <i>Steel Research International</i> , 2021, 92, 2000608.	1.0	4
62	Effect of basicity on the crystallization behavior of 25 wt.%Al ₂ O ₃ -SiO ₂ -CaO non-metallic inclusion-type oxides. <i>Journal of Non-Crystalline Solids</i> , 2022, 579, 121367.	1.5	4
63	Mechanism of Interface Reactions Between Fe-2%Al Alloy and High-Silica Tundish Refractory. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 591-602.	0.7	3
64	Large Eddy Simulation on the Transient Decarburization of the Molten Steel During RH Refining Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 670-681.	1.0	3
65	Laboratory investigation on quantitative effect of ladle filler sands on the cleanliness of a bearing steel. <i>Metallurgical Research and Technology</i> , 2022, 119, 204.	0.4	3
66	Effect of the La ₂ O ₃ Content in Slag on Inclusions in Al-Killed Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 2088-2103.	1.0	3
67	Dependency of Flow Pattern in the Mold on the Distribution of Inclusions Along the Thickness of Continuous Casting Slabs. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2536.	1.0	2
68	Three-Dimensional Evaluation of Internal Quality of the Continuous Casting Billet of a High Carbon Steel Using X-ray Computed Tomography. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 1603-1616.	1.0	2
69	Effect of Oxygen at Basic Oxygen Furnace Endpoint on Control of Inclusions in a Si-Mn Killed Steel. <i>Steel Research International</i> , 2022, 93, 2100411.	1.0	1
70	Effect of Na ₂ O addition on crystallization behavior and properties of 25 wt.%Al ₂ O ₃ -SiO ₂ -CaO non-metallic inclusion-type oxides. <i>Ceramics International</i> , 2022, 48, 23849-23861.	2.3	1
71	Effect of initial aluminium-oxygen concentration product on alumina-based inclusions in high carbon Al-killed steels during the ladle refining process. <i>Ironmaking and Steelmaking</i> , 0, , 1-8.	1.1	0