

# Wen Yang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4125390/wen-yang-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

713  
citations

15  
h-index

24  
g-index

75  
ext. papers

955  
ext. citations

2.1  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
72	Characteristics of Inclusions in Low Carbon Al-Killed Steel during Ladle Furnace Refining and Calcium Treatment. <i>ISIJ International</i> , <b>2013</b> , 53, 1401-1410	1.7	124
71	Stability Diagram of Mg-Al-O System Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 1809-1825	2.5	44
70	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> , <b>2014</b> , 45, 2057-2071	2.5	41
69	Cleanliness of Low Carbon Aluminum-Killed Steels during Secondary Refining Processes. <i>Steel Research International</i> , <b>2013</b> , 84, 473-489	1.6	35
68	Deformability of Oxide Inclusions in Tire Cord Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 803-811	2.5	29
67	Transient Evolution of Nonmetallic Inclusions During Calcium Treatment of Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 1841-1859	2.5	28
66	Transformation of Inclusions in Pipeline Steels During Solidification and Cooling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2267-2273	2.5	26
65	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> , <b>2017</b> , 48, 2717-2730	2.5	25
64	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. <i>ISIJ International</i> , <b>2016</b> , 56, 584-593	1.7	25
63	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> , <b>2018</b> , 49, 610-626	2.5	23
62	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. <i>Jom</i> , <b>2013</b> , 65, 1173-1180	2.1	22
61	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> , <b>2017</b> , 48, 701-712	2.5	19
60	Characterization of MnS Particles in Heavy Rail Steels Using Different Methods. <i>Steel Research International</i> , <b>2017</b> , 88, 1600080	1.6	17
59	Characteristics of Alumina-Based Inclusions in Low Carbon Al-Killed Steel under No-Stirring Condition. <i>Steel Research International</i> , <b>2013</b> , 84, 878-891	1.6	16
58	Investigation on Non-Metallic Inclusions in LCAK Steel Produced by BOF-LF-FTSC Production Route. <i>Journal of Iron and Steel Research International</i> , <b>2011</b> , 18, 6-12	1.2	16
57	Population Evolution of Oxide Inclusions in Ti-stabilized Ultra-low Carbon Steels after Deoxidation. <i>Journal of Iron and Steel Research International</i> , <b>2015</b> , 22, 1069-1077	1.2	14
56	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1594-1612	2.5	13

55	Effect of Oxide Inclusions on the Magnetic Properties of Non-Oriented Electrical Steel. <i>Steel Research International</i> , <b>2018</b> , 89, 1800047	1.6	12
54	Entrapment of Inclusions by Solidified Hooks at the Subsurface of Ultra-Low-Carbon Steel Slab. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 3186-3199	2.5	12
53	Effect of Cooling Rate on Oxide Inclusions During Solidification of 304 Stainless Steel. <i>Steel Research International</i> , <b>2019</b> , 90, 1900027	1.6	11
52	Effect of slag basicity adjusting on inclusions in tire cord steels during ladle furnace refining process. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 602	0.9	11
51	Transformation of cerium-containing inclusions in ultra-low-carbon aluminum-killed steels during solidification and cooling. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 8197-8206	5.5	9
50	Formation and Deformation Mechanism of Al <sub>2</sub> O <sub>3</sub> -CaS Inclusions in Ca-Treated Non-Oriented Electrical Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 200-212	2.5	9
49	Deformation and fracture of non-metallic inclusions in steel at different temperatures. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 15016-15022	5.5	8
48	Kinetic Prediction for the Composition of Inclusions in the Molten Steel During the Electroslag Remelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1521-1531	2.5	8
47	Effect of calcium treatment on magnetic properties of non-oriented electrical steels. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 494, 165803	2.8	8
46	Mechanism and Control of Sulfide Inclusion Accumulation in CET Zone of 37Mn5 Round Billet. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1004-1013	2.5	7
45	Three-Dimensional Distribution of Hooks in Al-Killed Low-Carbon Continuous Casting Steel Slabs. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 2533-2549	2.5	6
44	Three-Dimensional Characterization of Defects in Continuous Casting Blooms of Heavy Rail Steel Using X-ray Computed Tomography. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 2327-2340	2.5	6
43	Effect of Cooling Rate on the Formation of Nonmetallic Inclusions in X80 Pipeline Steel. <i>Metals</i> , <b>2019</b> , 9, 392	2.3	6
42	Effect of Mold Electromagnetic Stirring and Final Electromagnetic Stirring on the Solidification Structure and Macrosegregation in Bloom Continuous Casting. <i>Steel Research International</i> , <b>2021</b> , 92, 2000661	1.6	6
41	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. <i>Steel Research International</i> , <b>2021</b> , 92, 2000649	1.6	6
40	Comparison of 2D and 3D morphology of non-metallic inclusions in steel using different methods. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 113	0.9	5
39	Formation Mechanism of MgO Containing Inclusions in the Molten Steel Refined in MgO Refractory Crucibles. <i>Metals</i> , <b>2020</b> , 10, 444	2.3	4
38	Evolution of Non-metallic Inclusions and Precipitates in Oriented Silicon Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 926-932	2.5	4

37	Pinning Effect of Oxide Particles on Grain Boundaries of a Low Aluminum Non-oriented Electrical Steel. <i>Steel Research International</i> , <b>2020</b> , 91, 1900303	1.6	4
36	Precipitation of nitrides in non-oriented silicon steel. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 359-367	1.3	4
35	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 6-12	1.3	4
34	Effect of Selenium on the Interaction Between Refractory and Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 1115-1123	2.5	3
33	Formation of Non-Metallic Inclusions in the Molten Steel in MgO Crucibles <b>2014</b> , 267-276		3
32	Prediction of Calcium Yield During Calcium Treatment Process Performed in Steelmaking Using Neural Network. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> ,1	2.5	3
31	Effect of nozzle type on fluid flow, solidification, and solute transport in mold with mold electromagnetic stirring. <i>Journal of Iron and Steel Research International</i> ,1	1.2	3
30	Prediction of Spatial Composition Distribution of Inclusions in the Continuous Casting Bloom of a Bearing Steel under Unsteady Casting. <i>ISIJ International</i> , <b>2021</b> , 61, 824-833	1.7	3
29	Clogging Behavior of a Submerged Entry Nozzle for the Casting of Ca-Treated Al-Killed Ti-Bearing Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1186-1193	2.5	3
28	Effect of interactions between FeAl alloy and MgO-based refractory on the generation of MgO·Al <sub>2</sub> O <sub>3</sub> spinel. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 424-431	1.3	3
27	Clogging-Induced Asymmetrical and Transient Flow Pattern in a Steel Continuous Casting Slab Strand Measured Using Nail Boards. <i>Steel Research International</i> , <b>2021</b> , 92, 2000547	1.6	3
26	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , <b>2021</b> , 92, 2000629	1.6	3
25	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> , <b>2021</b> , 52, 3497-3514	2.5	3
24	Modelling of non-metallic inclusions in steel. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , <b>2020</b> , 129, 184-206	0.8	2
23	Evolution of Nonmetallic Inclusions with Varied Argon Stirring Condition during Vacuum Degassing Refining of a Bearing Steel. <i>Steel Research International</i> , <b>2021</b> , 92, 2000364	1.6	2
22	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. <i>Powder Technology</i> , <b>2021</b> , 390, 539-554	5.2	2
21	Evolution of Nonmetallic Inclusions in GCr15 Bearing Steels During Continuous Casting Process. <i>Steel Research International</i> ,2100445	1.6	2
20	Mechanism of Interface Reactions Between Fe-2%Al Alloy and High-Silica Tundish Refractory. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 591-602	1.2	1

19	Evolution of inclusions in a pipeline steel during continuous casting and hot rolling process. <i>Journal of Iron and Steel Research International</i> , <b>2022</b> , 29, 175	1.2	1
18	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. <i>Metals</i> , <b>2022</b> , 12, 181	2.3	1
17	Determination of Transient Flow Pattern in Steel Continuous Casting Molds Using Nail Board Measurement and Onsite Top Flux Observation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1106-1117	2.5	1
16	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> , <b>2021</b> , 52, 2536	2.5	1
15	Composition evolution and deformation of different non-metallic inclusions in a bearing steel during hot rolling. <i>Journal of Iron and Steel Research International</i> , <b>2022</b> , 29, 552-562	1.2	1
14	In Situ Observation and Prediction of the Transformation of Acicular Ferrites in Ti-Containing HSLA Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	1
13	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> , <b>2022</b> , 53, 670	2.5	0
12	Effect of basicity on the crystallization behavior of 25 wt.%Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CaO non-metallic inclusion-type oxides. <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 579, 121367	3.9	0
11	Water Modeling on Circulating Flow and Mixing Time in a Ruhrstahl Heraeus Vacuum Degasser. <i>Steel Research International</i> , <b>2021</b> , 92, 2000608	1.6	0
10	Effect of Casting Parameters on the Flow Pattern in a Steel Continuous Casting Slab Mold: Numerical Simulation and Industrial Trials. <i>Steel Research International</i> , 2100350	1.6	0
9	Laboratory investigation on quantitative effect of ladle filler sands on the cleanliness of a bearing steel. <i>Metallurgical Research and Technology</i> , <b>2022</b> , 119, 204	0.9	0
8	Large Eddy Simulation on Four-Phase Flow and Slag Entrainment in the Slab Continuous Casting Mold. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	0
7	Prediction on the three-dimensional spatial distribution of the number density of inclusions on the entire cross section of a steel continuous casting slab. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 190, 122789	4.9	0
6	Effect of the La <sub>2</sub> O <sub>3</sub> Content in Slag on Inclusions in Al-Killed Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	0
5	Evolution of Inclusions in Ti-Bearing Ultra-Low Carbon Steel during RH Refining Process <b>2013</b> , 1-16		
4	Prediction of Distribution of Composition of Inclusion in Continuous Casting Bloom of the Heavy Rail Steel Coupling Element Segregation, Heat Transfer, and Kinetics. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 87-94	0.3	
3	Effect of Oxygen at Basic Oxygen Furnace Endpoint on Control of Inclusions in a Si-Mn Killed Steel. <i>Steel Research International</i> , 2100411	1.6	
2	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> , 1	2.5	

- 1 Effect of initial aluminium-oxygen concentration product on alumina-based inclusions in high carbon Al-killed steels during the ladle refining process. *Ironmaking and Steelmaking*,1-8

1.3