

# Wen Yang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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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	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
71	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
70	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
69	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	
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	Water Modeling on Circulating Flow and Mixing Time in a RuhrstahlPieraeus Vacuum Degasser. <i>Steel Research International</i> , <b>2021</b> , 92, 2000608	1.6	0
57	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
56	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

55	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , <b>2021</b> , 92, 2000629	1.6	3
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	Effect of interactions between Fe-Al 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
42	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
41	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
40	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
39	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
38	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

37	Precipitation of nitrides in non-oriented silicon steel. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 359-367	1.3	4
36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	Characterization of MnS Particles in Heavy Rail Steels Using Different Methods. <i>Steel Research International</i> , <b>2017</b> , 88, 1600080	1.6	17
24	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
23	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
22	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
21	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
20	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

19	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
18	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
17	Formation of Non-Metallic Inclusions in the Molten Steel in MgO Crucibles <b>2014</b> , 267-276		3
16	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. <i>Jom</i> , <b>2013</b> , 65, 1173-1180	2.1	22
15	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
14	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
13	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
12	Evolution of Inclusions in Ti-Bearing Ultra-Low Carbon Steel during RH Refining Process <b>2013</b> , 1-16		
11	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
10	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
9	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
8	Effect of Oxygen at Basic Oxygen Furnace Endpoint on Control of Inclusions in a SiMn Killed Steel. <i>Steel Research International</i> ,2100411	1.6	
7	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
6	Evolution of Nonmetallic Inclusions in GCr15 Bearing Steels During Continuous Casting Process. <i>Steel Research International</i> ,2100445	1.6	2
5	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
4	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
3	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	
2	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> ,1-8	1.3	

- 1 Effect of the La<sub>2</sub>O<sub>3</sub> Content in Slag on Inclusions in Al-Killed Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*,1

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