Ying Ren

List of Publications by Citations

95 papers	1,056 citations	18 h-index	29 g-index
99 ext. papers	1,388 ext. citations	2.2 avg, IF	5.12 L-index

#	Paper	IF	Citations
95	Characteristics of Inclusions in Low Carbon Al-Killed Steel during Ladle Furnace Refining and Calcium Treatment. *ISIJ International*, **2013**, 53, 1401-1410	1.7	124
94	Transient Evolution of Inclusions during Calcium Modification in Linepipe Steels. *ISIJ International*, **2014**, 54, 2772-2779	1.7	62
93	Detection of Non-metallic Inclusions in Steel Continuous Casting Billets. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2014**, 45, 1291-1303	2.5	58
92	Transformation of Oxide Inclusions in Type 304 Stainless Steels during Heat Treatment. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 2281-2292	2.5	58
91	Stability Diagram of Mg-Al-O System Inclusions in Molten Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 1809-1825	2.5	44
90	Effect of Slag Composition on Inclusions in Si-Deoxidized 18Cr-8Ni Stainless Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 1024-1034	2.5	43
89	Formation and Thermodynamics of Mg-Al-Ti-O Complex Inclusions in Mg-Al-Ti-Deoxidized Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2014**, 45, 2057-2071	2.5	41
88	Transformation of Inclusions in Linepipe Steels During Heat Treatment. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 2047-2062	2.5	33
87	Deformability of Oxide Inclusions in Tire Cord Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2018**, 49, 803-811	2.5	29
86	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. *ISIJ International*, **2016**, 56, 584-593	1.7	25
85	Numerical Simulation of Steel and Argon Gas Two-Phase Flow in Continuous Casting Using LES + VOF + DPM Model. *Jom*, **2019**, 71, 1158-1168	2.1	25
84	A Reaction Model for Prediction of Inclusion Evolution During Reoxidation of Ca-Treated Al-Killed Steels in Tundish. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 1433-1438	2.5	23
83	Thermodynamic Model for Prediction of Slag-Steel-Inclusion Reactions of 304 Stainless Steels. *ISIJ International*, **2017**, 57, 68-75	1.7	23
82	Effect of Sulfur in Steel on Transient Evolution of Inclusions During Calcium Treatment. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2018**, 49, 610-626	2.5	23
81	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. *Jom*, **2013**, 65, 1173-1180	2.1	22
80	Large Eddy Simulation on the Fluid Flow, Solidification and Entrapment of Inclusions in the Steel Along the Full Continuous Casting Slab Strand. *Jom*, **2018**, 70, 2968-2979	2.1	21
79	Kinetic Modeling for the Dissolution of MgO Lining Refractory in Al-Killed Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 2195-2206	2.5	20

78	Effects of Interphase Forces on Fluid Flow in Gas-Stirred Steel Ladles Using the Eulerian□Lagrangian Multiphase Approach. *Jom*, **2018**, 70, 2128-2138	2.1	18
77	Modeling reoxidation behavior of Al□Ti-containing steels by CaO□Al2O3□MgO□SiO2 slag. *Journal of Iron and Steel Research International*, **2018**, 25, 146-156	1.2	17
76	Wettability between Fe-Al alloy and sintered MgO. *Ceramics International*, **2017**, 43, 7674-7681	5.1	16
75	Large Eddy Simulation on the Two-Phase Flow in a Water Model of Continuous Casting Strand with Gas Injection. *Steel Research International*, **2019**, 90, 1800287	1.6	15
74	Thermodynamic and Kinetic Analysis for Transformation of Oxide Inclusions in Solid 304 Stainless Steels. *Steel Research International*, **2019**, 90, 1800600	1.6	15
73	Kinetic study on compositional variations of inclusions, steel and slag during refining process. *Metallurgical Research and Technology*, **2018**, 115, 415	0.9	13
72	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	2.5	12
71	Modeling on the Fluid Flow and Mixing Phenomena in a RH Steel Degasser with Oval Down-Leg Snorkel. *Steel Research International*, **2018**, 89, 1800048	1.6	12
70	Influence of Casting Parameters on Hooks and Entrapped Inclusions at the Subsurface of Continuous Casting Slabs. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 5469-5477	2.3	11
69	Effect of slag basicity adjusting on inclusions in tire cord steels during ladle furnace refining process. *Metallurgical Research and Technology*, **2017**, 114, 602	0.9	11
68	Fluid Flow, Thermal Stratification, and Inclusion Motion During Holding Period in Steel Ladles. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 1476-1489	2.5	10
67	Modelling inclusion evolution in Al□Ti-killed steels during ladle mixing process. *Ironmaking and Steelmaking*, **2018**, 45, 585-591	1.3	10
66	Agglomeration of Solid Inclusions in Molten Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 36-41	2.5	10
65	Mathematical Modeling of Initial Solidification and Slag Infiltration at the Meniscus of Slab Continuous Casting Mold. *Jom*, **2019**, 71, 78-87	2.1	10
64	Prediction of spatial distribution of the composition of inclusions on the entire cross section of a linepipe steel continuous casting slab. *Journal of Materials Science and Technology*, **2021**, 61, 147-158	9.1	10
63	Inclusion Capture Probability Prediction Model for Bubble Floatation in Turbulent Steel Flow. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 16-21	2.5	9
62	Mathematical Modeling on the Influence of Casting Parameters on Initial Solidification at the Meniscus of Slab Continuous Casting. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 1444-1460	2.5	8
61	Numerical Simulation on the Oxidation of Lanthanum During the Electroslag Remelting Process. *Jom*, **2018**, 70, 2157-2168	2.1	8

60	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	2.5	8
59	Initial agglomeration of non-wetted solid particles in high temperature melt. *Chemical Engineering Science*, **2019**, 196, 14-24	4.4	8
58	Fluid Flow and Inclusion Behavior Around Spherical-Cap Bubbles. *Jom*, **2019**, 71, 69-77	2.1	8
57	Prediction on the spatial distribution of the composition of inclusions in a heavy rail steel continuous casting bloom. *Journal of Materials Research and Technology*, **2020**, 9, 5648-5665	5.5	7
56	Characterization and evolution of non-metallic inclusions in GCr15 bearing steels during cooling and solidification. *Ironmaking and Steelmaking*, **2020**, 47, 1217-1225	1.3	7
55	Effect of Al2O3SiO2MnO inclusions on precipitation of MnS in SiMn-killed 304 stainless steels. *Ironmaking and Steelmaking*, **2019**, 46, 558-563	1.3	6
54	Modeling transient evolution of inclusion in Si-Mn-killed steels during the ladle mixing process. *Metallurgical Research and Technology*, **2017**, 114, 308	0.9	6
53	Modification of inclusions by Al and Ca in ferrosilicon during alloying process of 18Cr8Ni stainless steels. *Ironmaking and Steelmaking*, **2020**, 47, 40-46	1.3	6
52	Effect of Mold Electromagnetic Stirring and Final Electromagnetic Stirring on the Solidification Structure and Macrosegregation in Bloom Continuous Casting. *Steel Research International*, **2021**, 92, 2000661	1.6	6
51	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. *Steel Research International*, **2021**, 92, 2000649	1.6	6
50	Formation Mechanism of Complex Oxide Inclusions in 55SiCr Spring Steels. *Steel Research International*, **2018**, 89, 1700277	1.6	5
49	Distribution of TiN inclusions in Ti-stabilized ultra-pure ferrite stainless steel slab. *Journal of Iron and Steel Research International*, **2019**, 26, 962-972	1.2	5
48	Effect of cerium on the wettability between 304 stainless steel and MgOAl2O3-based lining refractory. *Ceramics International*, **2020**, 46, 15674-15685	5.1	4
47	Investigation on Fluid Flow inside a Continuous Slab Casting Mold Using Particle Image Velocimetry. *Steel Research International*, **2019**, 90, 1900209	1.6	4
46	Three-Dimensional Macrosegregation Model of Bloom in Curved Continuous Casting Process. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 2796-2805	2.5	4
45	In Situ Observation of the Dissolution of Al2O3 Particles in CaO-Al2O3-SiO2 Slags. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 3288-3301	2.5	4
44	Precipitation of nitrides in non-oriented silicon steel. *Ironmaking and Steelmaking*, **2019**, 46, 359-367	1.3	4
43	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. *Ironmaking and Steelmaking*, **2020**, 47, 6-12	1.3	4

42	Dynamic mass variation and multiphase interaction among steel, slag, lining refractory and nonmetallic inclusions: Laboratory experiments and mathematical prediction. *International Journal of Minerals, Metallurgy and Materials*, **2021**, 28, 1298-1308	3.1	4
41	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	2.5	3
40	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*,1	2.5	3
39	Effect of nozzle type on fluid flow, solidification, and solute transport in mold with mold electromagnetic stirring. *Journal of Iron and Steel Research International*,1	1.2	3
38	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	1.7	3
37	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	2.5	3
36	Effect of Temperature and Multichannel Stopper Rod on Bubbles in Water Model of a Steel Continuous Caster. *Steel Research International*, **2021**, 92, 2100067	1.6	3
35	Effect of Slag Modification on Inclusions in Si–Mn-Killed 304 Stainless Steels. *Steel Research International*, **2021**, 92, 2000506	1.6	3
34	Effect of Total Calcium in Heavy Rail Steels on the Transformation of Inclusions during Heat Treatment at 1473 K. *Steel Research International*, **2021**, 92, 2000605	1.6	3
33	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. *Steel Research International*, **2021**, 92, 2000629	1.6	3
32	Three-Dimensional Spatial Distribution of Non-metallic Inclusions on the Entire Cross Section of a Steel Continuous Casting Slab. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 3497-3514	2.5	3
31	Modelling of non-metallic inclusions in steel. *Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy*, **2020**, 129, 184-206	0.8	2
30	Wettability and interfacial behavior between cerium containing stainless steel and MgO□r2O3-based lining refractory. *Journal of Alloys and Compounds*, **2020**, 845, 155877	5.7	2
29	Yield of Y, La, Ce in high temperature alloy during electroslag remelting process. *Metallurgical Research and Technology*, **2016**, 113, 405	0.9	2
28	Transient Evolution of Non-metallic Inclusions in a Si-Mn-killed Stainless Steel with Cerium Addition. *Steel Research International*,	1.6	2
27	Effect of calcium treatment on inclusions in Si-Mn-killed 304 stainless steels. *Journal of Materials Research and Technology*, **2020**, 9, 11351-11360	5.5	2
26	Effect of Thermal History on the Deformation of Non-metallic Inclusions During Plain Strain Compression. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 1200-1206	2.5	2
25	Effect of Yttrium Content on the Transformation of Inclusions in a Si–Mn-Killed Stainless Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 2659-2675	2.5	2

24	Wettability between 304 stainless steel and refractory materials. *Journal of Materials Research and Technology*, **2020**, 9, 5784-5793	5.5	2
23	Evolution of Nonmetallic Inclusions with Varied Argon Stirring Condition during Vacuum Degassing Refining of a Bearing Steel. *Steel Research International*, **2021**, 92, 2000364	1.6	2
22	Dissolution Behavior of Mg and Ca from Dolomite Refractory into Al-killed Molten Steel. *ISIJ International*, **2021**, 61, 2391-2399	1.7	2
21	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. *Powder Technology*, **2021**, 390, 539-554	5.2	2
20	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. *Metals*, **2022**, 12, 181	2.3	1
19	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	2.5	1
18	Effect of Al on the Solid Reaction between 3CaO·Al2O3 Oxide and Fe–Al Alloy at 1373 K. *Steel Research International*, **2021**, 92, 2100049	1.6	1
17	Dependency of Flow Pattern in the Mold on the Distribution of Inclusions Along the Thickness of Continuous Casting Slabs. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2021**, 52, 2536	2.5	1
16	Evolution of Sulfides in Nonoriented Silicon Steels during Heating Process. *Steel Research International*, **2021**, 92, 2000489	1.6	1
15	Simulation of Solidification Structure During Vacuum Arc Remelting Using Cellular Automaton–Finite Element Method. *Steel Research International*,2100408	1.6	1
14	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	1.2	1
13	Effect of Sulfur Content on Evolution of Nonmetallic Inclusions in Low Sulfur Al-Killed Steels during Heat Treatment. *Steel Research International*,2100526	1.6	0
12	Effect of Compression Reduction on Deformation of CaO–CaS–Al2O3–MgO Inclusions in Solid and Semi-Solid Steel. *Steel Research International*, **2021**, 92, 2000609	1.6	0
11	Effect of Casting Parameters on the Flow Pattern in a Steel Continuous Casting Slab Mold: Numerical Simulation and Industrial Trials. *Steel Research International*,2100350	1.6	0
10	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*,1	2.5	0
9	Inclusion Evolution in Al-Killed Ca-Treated Steels at Heat Treatment Temperature In Situ Observed Using Confocal Scanning Laser Microscope. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*,1	2.5	0
8	Solid reactions between CaO–Al2O3 and Si–Ti-containing steel at 1273 K. *Journal of Materials Research and Technology*, **2022**, 18, 159-170	5.5	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. *International Journal of Heat and Mass Transfer*, **2022**, 190, 122789	4.9	0

6	Wettability Between Si-Mn-Killed Steel and MgO-Based Refractory Containing SiO 2 Impurities. *Steel Research International*,2100703	1.6
5	Special issue on continuous casting. *Journal of Iron and Steel Research International*, **2022**, 29, 1	1.2
4	Effect of Slag Basicity on Non-metallic Inclusions in a Heavy Rail Steel. *Minerals, Metals and Materials Series*, **2022**, 513-520	0.3
3	Transformation of inclusions in Al-killed steels with different calcium contents during the heat treatment. *Ironmaking and Steelmaking*,1-12	1.3
2	Kinetic modeling on hot metal desulfurization with mechanical stirring. *Journal of Iron and Steel Research International*,1	1.2
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