

Ying Ren

List of Publications by Year in descending order

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361296

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Characteristics of Inclusions in Low Carbon Al-Killed Steel during Ladle Furnace Refining and Calcium Treatment. ISIJ International, 2013, 53, 1401-1410.	0.6	166
2	Transient Evolution of Inclusions during Calcium Modification in Linepipe Steels. ISIJ International, 2014, 54, 2772-2779.	0.6	85
3	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.	1.0	79
4	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.	1.0	73
5	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.	1.0	57
6	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.	1.0	54
7	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.	1.0	54
8	Deformability of Oxide Inclusions in Tire Cord Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 803-811.	1.0	52
9	Numerical Simulation of Steel and Argon Gas Two-Phase Flow in Continuous Casting Using LES+VOF+DPM Model. Jom, 2019, 71, 1158-1168.	0.9	45
10	Transformation of Inclusions in Linepipe Steels During Heat Treatment. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2047-2062.	1.0	42
11	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.	1.0	35
12	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. ISIJ International, 2016, 56, 584-593.	0.6	34
13	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.	0.9	33
14	Effects of Interphase Forces on Fluid Flow in Gas-Stirred Steel Ladles Using the Eulerian-Lagrangian Multiphase Approach. Jom, 2018, 70, 2128-2138.	0.9	32
15	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.	1.0	31
16	Thermodynamic Model for Prediction of Slag-Steel-Inclusion Reactions of 304 Stainless Steels. ISIJ International, 2017, 57, 68-75.	0.6	29
17	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. Jom, 2013, 65, 1173-1180.	0.9	26
18	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.	1.0	26

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19	A Reaction Model for Prediction of Inclusion Evolution During Reoxidation of Ca-Treated Al-Killed Steels in Tundish. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 1433-1438.	1.0	24
20	Wettability between Fe-Al alloy and sintered MgO. <i>Ceramics International</i> , 2017, 43, 7674-7681.	2.3	21
21	Large Eddy Simulation on the Two-Phase Flow in a Water Model of Continuous Casting Strand with Gas Injection. <i>Steel Research International</i> , 2019, 90, 1800287.	1.0	21
22	Modeling on the Fluid Flow and Mixing Phenomena in a RH Steel Degasser with Oval Down-Leg Snorkel. <i>Steel Research International</i> , 2018, 89, 1800048.	1.0	20
23	Thermodynamic and Kinetic Analysis for Transformation of Oxide Inclusions in Solid 304 Stainless Steels. <i>Steel Research International</i> , 2019, 90, 1800600.	1.0	20
24	Modeling reoxidation behavior of Al-Ti-containing steels by Ca-Al ₂ O ₃ -MgO-SiO ₂ slag. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 146-156.	1.4	19
25	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> , 2018, 49, 3186-3199.	1.0	19
26	Mathematical Modeling on the Influence of Casting Parameters on Initial Solidification at the Meniscus of Slab Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1444-1460.	1.0	19
27	Agglomeration of Solid Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 36-41.	1.0	19
28	Effect of cerium on the wettability between 304 stainless steel and MgO-Al ₂ O ₃ -based lining refractory. <i>Ceramics International</i> , 2020, 46, 15674-15685.	2.3	19
29	Dynamic mass variation and multiphase interaction among steel, slag, lining refractory and nonmetallic inclusions: Laboratory experiments and mathematical prediction. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1298-1308.	2.4	18
30	Influence of Casting Parameters on Hooks and Entrapped Inclusions at the Subsurface of Continuous Casting Slabs. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5469-5477.	1.1	17
31	Initial agglomeration of non-wetted solid particles in high temperature melt. <i>Chemical Engineering Science</i> , 2019, 196, 14-24.	1.9	17
32	Mathematical Modeling of Initial Solidification and Slag Infiltration at the Meniscus of Slab Continuous Casting Mold. <i>Jom</i> , 2019, 71, 78-87.	0.9	17
33	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. <i>Steel Research International</i> , 2021, 92, 2000649.	1.0	17
34	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> , 2022, 29, 237-246.	1.4	17
35	Fluid Flow, Thermal Stratification, and Inclusion Motion During Holding Period in Steel Ladles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1476-1489.	1.0	16
36	Characterization and evolution of non-metallic inclusions in GCr15 bearing steels during cooling and solidification. <i>Ironmaking and Steelmaking</i> , 2020, 47, 1217-1225.	1.1	16

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37	Prediction of spatial distribution of the composition of inclusions on the entire cross section of a linepipe steel continuous casting slab. <i>Journal of Materials Science and Technology</i> , 2021, 61, 147-158.	5.6	16
38	Three-Dimensional Macrosegregation Model of Bloom in Curved Continuous Casting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2796-2805.	1.0	16
39	Kinetic study on compositional variations of inclusions, steel and slag during refining process. <i>Metallurgical Research and Technology</i> , 2018, 115, 415.	0.4	15
40	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> , 2021, 52, 1186-1193.	1.0	15
41	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> , 2022, 53, 1-7.	1.0	15
42	Prediction on the spatial distribution of the composition of inclusions in a heavy rail steel continuous casting bloom. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5648-5665.	2.6	14
43	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. <i>Powder Technology</i> , 2021, 390, 539-554.	2.1	14
44	Effect of slag basicity adjusting on inclusions in tire cord steels during ladle furnace refining process. <i>Metallurgical Research and Technology</i> , 2017, 114, 602.	0.4	13
45	Modelling inclusion evolution in Al-Ti-killed steels during ladle mixing process. <i>Ironmaking and Steelmaking</i> , 2018, 45, 585-591.	1.1	13
46	Inclusion Capture Probability Prediction Model for Bubble Floatation in Turbulent Steel Flow. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 16-21.	1.0	13
47	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> , 2021, 52, 1521-1531.	1.0	13
48	Effect of Yttrium Content on the Transformation of Inclusions in a Si-Mn-Killed Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2659-2675.	1.0	13
49	In Situ Observation of the Dissolution of Al ₂ O ₃ Particles in CaO-Al ₂ O ₃ -SiO ₂ Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3288-3301.	1.0	13
50	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. <i>Ironmaking and Steelmaking</i> , 2020, 47, 6-12.	1.1	12
51	Effect of calcium treatment on inclusions in Si-Mn-killed 304 stainless steels. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11351-11360.	2.6	12
52	Effect of Al ₂ O ₃ -SiO ₂ -MnO inclusions on precipitation of MnS in Si-Mn-killed 304 stainless steels. <i>Ironmaking and Steelmaking</i> , 2019, 46, 558-563.	1.1	11
53	Distribution of TiN inclusions in Ti-stabilized ultra-pure ferrite stainless steel slab. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 962-972.	1.4	11
54	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> , 2022, 53, 1446-1461.	1.0	11

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55	Numerical Simulation on the Oxidation of Lanthanum During the Electroslag Remelting Process. <i>Jom</i> , 2018, 70, 2157-2168.	0.9	10
56	Fluid Flow and Inclusion Behavior Around Spherical-Cap Bubbles. <i>Jom</i> , 2019, 71, 69-77.	0.9	10
57	Modification of inclusions by Al and Ca in ferrosilicon during alloying process of 18Crâ€“8Ni stainless steels. <i>Ironmaking and Steelmaking</i> , 2020, 47, 40-46.	1.1	10
58	Effect of Temperature and Multichannel Stopper Rod on Bubbles in Water Model of a Steel Continuous Caster. <i>Steel Research International</i> , 2021, 92, 2100067.	1.0	9
59	Dissolution Behavior of Mg and Ca from Dolomite Refractory into Al-killed Molten Steel. <i>ISIJ International</i> , 2021, 61, 2391-2399.	0.6	9
60	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> , 2022, 29, 552-562.	1.4	9
61	Modeling transient evolution of inclusion in Si-Mn-killed steels during the ladle mixing process. <i>Metallurgical Research and Technology</i> , 2017, 114, 308.	0.4	8
62	Investigation on Fluid Flow inside a Continuous Slab Casting Mold Using Particle Image Velocimetry. <i>Steel Research International</i> , 2019, 90, 1900209.	1.0	8
63	Precipitation of nitrides in non-oriented silicon steel. <i>Ironmaking and Steelmaking</i> , 2019, 46, 359-367.	1.1	8
64	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , 2021, 92, 2000629.	1.0	8
65	Yield of Y, La, Ce in high temperature alloy during electroslag remelting process. <i>Metallurgical Research and Technology</i> , 2016, 113, 405.	0.4	7
66	Wettability and interfacial behavior between cerium containing stainless steel and MgOâ€“Cr ₂ O ₃ -based lining refractory. <i>Journal of Alloys and Compounds</i> , 2020, 845, 155877.	2.8	7
67	Effect of Slag Modification on Inclusions in Siâ€“Mnâ€“Killed 304 Stainless Steels. <i>Steel Research International</i> , 2021, 92, 2000506.	1.0	7
68	Prediction of Spatial Composition Distribution of Inclusions in the Continuous Casting Bloom of a Bearing Steel under Unsteady Casting. <i>ISIJ International</i> , 2021, 61, 824-833.	0.6	7
69	Dissolution of SiO ₂ Inclusions in CaO-SiO ₂ -Based Slags In Situ Observed Using High-Temperature Confocal Scanning Laser Microscopy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 682-692.	1.0	7
70	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> , 2022, 190, 122789.	2.5	7
71	Formation Mechanism of Complex Oxide Inclusions in 55SiCr Spring Steels. <i>Steel Research International</i> , 2018, 89, 1700277.	1.0	6
72	Effect of Selenium on the Interaction Between Refractory and Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1115-1123.	1.0	6

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73	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
74	Simulation of Solidification Structure During Vacuum Arc Remelting Using Cellular Automatonâ€™Finite Element Method. Steel Research International, 2022, 93, 2100408.	1.0	6
75	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
76	Transient Evolution of Nonmetallic Inclusions in a Siâ€™Mnâ€™Killed Stainless Steel with Cerium Addition. Steel Research International, 2022, 93, .	1.0	6
77	Wettability between 304 stainless steel and refractory materials. Journal of Materials Research and Technology, 2020, 9, 5784-5793.	2.6	5
78	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
79	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.	1.0	5
80	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.	1.0	5
81	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. Metals, 2022, 12, 181.	1.0	5
82	Special issue on continuous casting. Journal of Iron and Steel Research International, 2022, 29, 1-2.	1.4	5
83	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, 2022, 53, 1323-1328.	1.0	5
84	Modelling of non-metallic inclusions in steel. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 184-206.	0.1	4
85	Effect of Sulfur Content on Evolution of Nonmetallic Inclusions in Low Sulfur Alâ€™Killed Steels during Heat Treatment. Steel Research International, 2022, 93, 2100526.	1.0	4
86	Transformation of inclusions in Al-killed steels with different calcium contents during the heat treatment. Ironmaking and Steelmaking, 2022, 49, 472-483.	1.1	4
87	Kinetic modeling on hot metal desulfurization with mechanical stirring. Journal of Iron and Steel Research International, 2022, 29, 719-724.	1.4	4
88	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.	1.0	3
89	Solid reactions between CaOâ€™Al ₂ O ₃ and Siâ€™Ti-containing steel at 1273ÅK. Journal of Materials Research and Technology, 2022, 18, 159-170.	2.6	3
90	Effect of the grain size and cooling rate on the martensite start temperature of the stainless steel. Steel Research International, 0, , .	1.0	3

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91	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.	1.0	2
92	Evolution of Sulfides in Nonoriented Silicon Steels during Heating Process. Steel Research International, 2021, 92, 2000489.	1.0	1
93	Effect of Compression Reduction on Deformation of CaO-CaS-Al ₂ O ₃ -MgO Inclusions in Solid and Semi-Solid Steel. Steel Research International, 2021, 92, 2000609.	1.0	1
94	Effect of Al on the Solid Reaction between 3CaO·Al ₂ O ₃ Oxide and Fe-S-O-Al Alloy at 1373 K. Steel Research International, 2021, 92, 2100049.	1.0	1
95	Effect of Cerium on the Interaction between a Si-Mn-Killed Steel and a MgO-based Refractory. Steel Research International, 0, , .	1.0	1
96	Wettability Between Si-Mn-Killed Steel and MgO-based Refractory Containing SiO ₂ Impurities. Steel Research International, 2022, 93, .	1.0	0
97	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, 0, , 1-8.	1.1	0