

Zhang Lifeng

List of Publications by Year in Descending Order

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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.

226
papers

3,736
citations

30
h-index

55
g-index

235
ext. papers

4,555
ext. citations

2.2
avg. IF

6.18
L-index

#	Paper	IF	Citations
226	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	2.5	0
225	Interfacial Phenomena and Inclusion Formation at Early Melting Stages of Lanthanum Ferroalloys in a Non-Oriented Electrical Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 662	2.5	0
224	Transformation of LaAlO ₃ Inclusions During Heating in a Solid Non-oriented Electrical Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 637-649	2.5	
223	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. <i>Metals</i> , 2022 , 12, 181	2.3	1
222	Parametric Study of Mold Electromagnetic Stirring: Effects of Load Condition and Copper Resistivity. <i>Minerals, Metals and Materials Series</i> , 2022 , 42-48	0.3	
221	Distribution of Inclusions in a IF Steel Continuous Casting Slab Casted During SEN-Clogged State. <i>Minerals, Metals and Materials Series</i> , 2022 , 493-500	0.3	
220	Characterization of SiC and Si ₃ N ₄ inclusions in solar cell Si scraps and their motion at the Si/slag interface. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 2220-2220	5.5	0
219	Kinetic Prediction for Isothermal Transformation of Inclusions in a Bearing Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 394	2.5	
218	Removal of SiC and Si ₃ N ₄ inclusions in solar cell Si scraps through slag refining. <i>High Temperature Materials and Processes</i> , 2022 , 41, 132-136	0.9	0
217	Mathematical simulation of hot metal desulfurization during KR process coupled with an unreacted core model. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 758-766	3.1	1
216	Effect of Thermal History on the Deformation of Non-metallic Inclusions During Plain Strain Compression. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 1200-1206	2.5	2
215	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	1.7	3
214	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> , 2021 , 52, 1106-1117	2.5	1
213	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	2.5	8
212	Initial Solidification and Heat Transfer at Different Locations of Slab Continuous Casting Mold through 3D Coupled Model. <i>Steel Research International</i> , 2021 , 92, 2000714	1.6	
211	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	2.5	3
210	Effect of Al on the Solid Reaction between 3CaO·Al ₂ O ₃ Oxide and FeSiAl Alloy at 1373 K. <i>Steel Research International</i> , 2021 , 92, 2100049	1.6	1

209	Effect of Electromagnetic Stirring on Inclusions in Continuous Casting Blooms of a Gear Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2341	2.5	3
208	On the Limits of the Geometric Scale Ratio Using Water Modeling in Ladles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2263-2274	2.5	2
207	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	1.6	3
206	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	2.5	1
205	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> , 2021 , 52, 2327-2340	2.5	6
204	Effect of Yttrium Content on the Transformation of Inclusions in a SiMn-Killed Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2659-2675	2.5	2
203	Influence of Cooling Parameters on the Microstructure and Primary Carbide Precipitation in GCr15 Steel. <i>Steel Research International</i> , 2021 , 92, 2100208	1.6	0
202	Mathematical Modeling on the Effect of the Interfacial Tension on the Droplets during Electroslag Remelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 3167-3182	2.5	2
201	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	2.5	4
200	Water Modeling on Circulating Flow and Mixing Time in a RuhrstahlPeraeus Vacuum Degasser. <i>Steel Research International</i> , 2021 , 92, 2000608	1.6	0
199	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	2.5	4
198	Atomistic Nucleation Mechanism of Titanium Oxides in Steel Based on Homogeneous and Heterogeneous Modes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 3315-3331	2.5	1
197	Transient influence of cerium on inclusions in an Al-killed non-oriented electrical steel. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 191-199	1.3	5
196	Evolution of Nonmetallic Inclusions with Varied Argon Stirring Condition during Vacuum Degassing Refining of a Bearing Steel. <i>Steel Research International</i> , 2021 , 92, 2000364	1.6	2
195	Evolution of Sulfides in Nonoriented Silicon Steels during Heating Process. <i>Steel Research International</i> , 2021 , 92, 2000489	1.6	1
194	Effect of Slag Modification on Inclusions in SiMn-Killed 304 Stainless Steels. <i>Steel Research International</i> , 2021 , 92, 2000506	1.6	3
193	Mathematical Modeling on Slag Consumption and Lubrication in a Slab Continuous Casting Mold. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 322-338	2.5	1
192	Clogging-Induced Asymmetrical and Transient Flow Pattern in a Steel Continuous Casting Slab Strand Measured Using Nail Boards. <i>Steel Research International</i> , 2021 , 92, 2000547	1.6	3

191	Effect of Total Calcium in Heavy Rail Steels on the Transformation of Inclusions during Heat Treatment at 1473 K. <i>Steel Research International</i> , 2021 , 92, 2000605	1.6	3
190	Application of Si-Based Solvents to the Purification of Metallurgical Grade-Silicon. <i>Separation and Purification Reviews</i> , 2021 , 50, 115-138	7.3	11
189	Effects of Interphase Forces on Multiphase Flow and Bubble Distribution in Continuous Casting Strands. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 528-547	2.5	10
188	New insights into the structural evolution of TiO-TiO-TiO-TiO-TiOC-TiC systems at the nanoscale during the reduction process. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4796-4804	3.6	1
187	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , 2021 , 92, 2000629	1.6	3
186	Effect of Compression Reduction on Deformation of CaO-Ta-Al ₂ O ₃ -MgO Inclusions in Solid and Semi-Solid Steel. <i>Steel Research International</i> , 2021 , 92, 2000609	1.6	0
185	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	1.6	6
184	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. <i>Steel Research International</i> , 2021 , 92, 2000649	1.6	6
183	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	2.5	3
182	Effect of Diameter and Contact Angle on Initial Aggregation of Solid Inclusions in Molten Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2831-2836	2.5	0
181	Dissolution Behavior of Mg and Ca from Dolomite Refractory into Al-killed Molten Steel. <i>ISIJ International</i> , 2021 , 61, 2391-2399	1.7	2
180	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. <i>Powder Technology</i> , 2021 , 390, 539-554	5.2	2
179	Boron Removal from Metallurgical-Grade Silicon by Slag Refining and Gas Blowing Techniques: Experiments and Simulations. <i>Journal of Electronic Materials</i> , 2021 , 50, 1386-1396	1.9	9
178	Transformation of Inclusions in a Complicated-Deoxidized Heavy Rail Steels During Heating. <i>Steel Research International</i> , 2020 , 91, 2000120	1.6	7
177	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	0.8	2
176	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	5.1	4
175	Characterization and evolution of non-metallic inclusions in GCr15 bearing steels during cooling and solidification. <i>Ironmaking and Steelmaking</i> , 2020 , 47, 1217-1225	1.3	7
174	Effect of Cerium Content on Inclusions in an Ultra-Low-Carbon Aluminum-Killed Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 589-600	2.5	33

173	Formation Mechanism of MgO Containing Inclusions in the Molten Steel Refined in MgO Refractory Crucibles. <i>Metals</i> , 2020 , 10, 444	2.3	4
172	Pinning Effect of Oxide Particles on Grain Boundaries of a Low Aluminum Non-oriented Electrical Steel. <i>Steel Research International</i> , 2020 , 91, 1900303	1.6	4
171	Formation and Deformation Mechanism of Al ₂ O ₃ -CaS Inclusions in Ca-Treated Non-Oriented Electrical Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 200-212	2.5	9
170	Effect of the Gap Between Copper Mold and Solidified Shell on the Fluid Flow in the Continuous Casting Strand with Mold Electromagnetic Stirring. <i>Steel Research International</i> , 2020 , 91, 1900470	1.6	11
169	Thermodynamic insight into the growth of nanoscale inclusion of Al-deoxidation in Fe-O-Al melt. <i>Scientific Reports</i> , 2020 , 10, 16909	4.9	0
168	Kinetic Modeling of Nonmetallic Inclusions Behavior in Molten Steel: A Review. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 2453-2482	2.5	17
167	Deformation and fracture of non-metallic inclusions in steel at different temperatures. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15016-15022	5.5	8
166	Dependence of the Clogging Possibility of the Submerged Entry Nozzle during Steel Continuous Casting Process on the Liquid Fraction of Non-Metallic Inclusions in the Molten Al-Killed Ca-Treated Steel. <i>Metals</i> , 2020 , 10, 1205	2.3	5
165	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. <i>Ironmaking and Steelmaking</i> , 2020 , 47, 6-12	1.3	4
164	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	1.3	3
163	Effect of calcium treatment on magnetic properties of non-oriented electrical steels. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 494, 165803	2.8	8
162	Modification of inclusions by Al and Ca in ferrosilicon during alloying process of 18Cr-8Ni stainless steels. <i>Ironmaking and Steelmaking</i> , 2020 , 47, 40-46	1.3	6
161	Interaction Between Liquid Steel and AlN Substrate Containing Al-Y-Oxides. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2459-2470	2.5	3
160	Numerical Simulation of Solidification Behavior and Solute Transport in Slab Continuous Casting with S-EMS. <i>Metals</i> , 2019 , 9, 452	2.3	8
159	Transformation of Inclusions in Linepipe Steels During Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2047-2062	2.5	33
158	Modeling of Turbulent Flow around Bubbles in Molten Steel. <i>Steel Research International</i> , 2019 , 90, 1800576	1.6	2
157	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	2.5	8
156	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	2.5	3

155	The effect of Al content on the wettability between liquid iron and MgOAl ₂ O ₃ binary substrate. <i>Ceramics International</i> , 2019 , 45, 11287-11295	5.1	6
154	Effect of Cooling Rate on Oxide Inclusions During Solidification of 304 Stainless Steel. <i>Steel Research International</i> , 2019 , 90, 190027	1.6	11
153	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	1.6	15
152	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	2.5	10
151	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	1.3	6
150	Investigation on Fluid Flow inside a Continuous Slab Casting Mold Using Particle Image Velocimetry. <i>Steel Research International</i> , 2019 , 90, 1900209	1.6	4
149	Thermodynamic and Kinetic Analysis for Transformation of Oxide Inclusions in Solid 304 Stainless Steels. <i>Steel Research International</i> , 2019 , 90, 1800600	1.6	15
148	Effect of Melt Superheat and Alloy Size on the Mixing Phenomena in Argon-Stirred Steel Ladles. <i>Steel Research International</i> , 2019 , 90, 1800288	1.6	7
147	Initial agglomeration of non-wetted solid particles in high temperature melt. <i>Chemical Engineering Science</i> , 2019 , 196, 14-24	4.4	8
146	Agglomeration of Solid Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 36-41	2.5	10
145	Numerical Simulation of Steel and Argon Gas Two-Phase Flow in Continuous Casting Using LES + VOF + DPM Model. <i>Jom</i> , 2019 , 71, 1158-1168	2.1	25
144	Fluid Flow and Inclusion Behavior Around Spherical-Cap Bubbles. <i>Jom</i> , 2019 , 71, 69-77	2.1	8
143	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	2.5	9
142	Mathematical Modeling of Initial Solidification and Slag Infiltration at the Meniscus of Slab Continuous Casting Mold. <i>Jom</i> , 2019 , 71, 78-87	2.1	10
141	Precipitation of nitrides in non-oriented silicon steel. <i>Ironmaking and Steelmaking</i> , 2019 , 46, 359-367	1.3	4
140	A Method to Control the Transverse Corner Cracks on a Continuous Casting Slab by Combining Microstructure Analysis with Numerical Simulation of the Slab Temperature Field. <i>Steel Research International</i> , 2018 , 89, 1700480	1.6	6
139	Evolution of Non-metallic Inclusions and Precipitates in Oriented Silicon Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 926-932	2.5	4
138	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	2.5	23

137	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	2.5	29
136	Effect of Oxide Inclusions on the Magnetic Properties of Non-Oriented Electrical Steel. <i>Steel Research International</i> , 2018 , 89, 1800047	1.6	12
135	Measurements of surface velocity and level fluctuation in an actual continuous wide slab casting mold. <i>Metallurgical Research and Technology</i> , 2018 , 115, 102	0.9	6
134	A Thermodynamic Model to Estimate the Formation of Complex Nitrides of Al x Mg(1x)N in Silicon Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 894-901	2.5	3
133	Modelling inclusion evolution in AlMn-killed steels during ladle mixing process. <i>Ironmaking and Steelmaking</i> , 2018 , 45, 585-591	1.3	10
132	Formation Mechanism of Complex Oxide Inclusions in 55SiCr Spring Steels. <i>Steel Research International</i> , 2018 , 89, 1700277	1.6	5
131	Fluid Flow, Dissolution, and Mixing Phenomena in Argon-Stirred Steel Ladles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2722-2743	2.5	26
130	Numerical Simulation on the Oxidation of Lanthanum During the Electroslag Remelting Process. <i>Jom</i> , 2018 , 70, 2157-2168	2.1	8
129	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	2.3	11
128	Effects of Interphase Forces on Fluid Flow in Gas-Stirred Steel Ladles Using the Eulerian-Lagrangian Multiphase Approach. <i>Jom</i> , 2018 , 70, 2128-2138	2.1	18
127	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> , 2018 , 49, 2533-2549	2.5	6
126	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	2.5	12
125	Influence of Electromagnetic Brake on Hook Growth and Inclusion Entrapment Beneath the Surface of Low-Carbon Continuous Casting Slabs. <i>Steel Research International</i> , 2018 , 89, 1800263	1.6	7
124	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	2.5	28
123	Effect of non-metallic precipitates and grain size on core loss of non-oriented electrical silicon steels. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 454-462	2.8	18
122	History, Future, and Research Activities in Metallurgical Engineering at University of Science and Technology Beijing (USTB). <i>Steel Research International</i> , 2018 , 89, 1800539	1.6	
121	A Mathematical Model for Prediction of Carbon Concentration During RH Refining Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2963-2968	2.5	6
120	Efficient Recovery of Copper and Cobalt from the Matte-Slag Mixture of ISA Furnace by Injection of Coke and Pyrite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 3118-3126	2.5	3

119	Large Eddy Simulation on the Fluid Flow, Solidification and Entrapment of Inclusions in the Steel Along the Full Continuous Casting Slab Strand. <i>Jom</i> , 2018 , 70, 2968-2979	2.1	21
118	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	1.6	12
117	Relationship Between Dissolved Calcium and Total Calcium in Al-Killed Steels After Calcium Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 1624-1631	2.5	12
116	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> , 2017 , 48, 1004-1013	2.5	7
115	Bubble Motion and Gas-Liquid Mixing in Metallurgical Reactor with a Top Submerged Lance. <i>International Journal of Chemical Reactor Engineering</i> , 2017 , 15,	1.2	5
114	Experimental Study on Scale-Up of Solid-Liquid Stirred Tank with an Intermig Impeller. <i>Jom</i> , 2017 , 69, 301-306	2.1	2
113	Kinetic Modeling for the Dissolution of MgO Lining Refractory in Al-Killed Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2195-2206	2.5	20
112	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	2.5	26
111	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	2.5	23
110	Motion of Single Bubble and Interactions between Two Bubbles in Liquid Steel. <i>ISIJ International</i> , 2017 , 57, 805-813	1.7	5
109	Thermodynamic Model for Prediction of Slag-Steel-Inclusion Reactions of 304 Stainless Steels. <i>ISIJ International</i> , 2017 , 57, 68-75	1.7	23
108	Transformation of Oxide Inclusions in Type 304 Stainless Steels during Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2281-2292	2.5	58
107	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	2.5	25
106	Characterization of MnS Particles in Heavy Rail Steels Using Different Methods. <i>Steel Research International</i> , 2017 , 88, 1600080	1.6	17
105	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	2.5	19
104	Wettability between molten slag and dolomitic refractory. <i>Ceramics International</i> , 2016 , 42, 16040-16048	3.1	6
103	Effect of Oxidation on Wetting Behavior Between Silicon and Silicon Carbide 2016 , 237-242		
102	Modeling on the solidification structure of Fe-Ni-based alloys using cellular automaton method. <i>Metallurgical Research and Technology</i> , 2016 , 113, 410	0.9	4

101	Effect of Slag Composition on Inclusions in Si-Deoxidized 18Cr-8Ni Stainless Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1024-1034	2.5	43
100	Investigation on the Effect of Nozzle Number on the Recirculation Rate and Mixing Time in the RH Process Using VOF + DPM Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1950-1961	2.5	45
99	Influence of FC-Mold on the Full Solidification of Continuous Casting Slab. <i>Jom</i> , 2016 , 68, 2170-2179	2.1	19
98	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1594-1612	2.5	13
97	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. <i>ISIJ International</i> , 2016 , 56, 584-593	1.7	25
96	Influence of Oxidation on Contact Angle Between Liquid Aluminum and Al ₂ O ₃ 2016 , 827-832		
95	Mathematical Modeling on the Growth and Removal of Non-metallic Inclusions in the Molten Steel in a Two-Strand Continuous Casting Tundish. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 2991-3012	2.5	39
94	Extraction, Thermodynamic Analysis, and Precipitation Mechanism of MnS-TiN Complex Inclusions in Low-Sulfur Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3015-3025	2.3	47
93	Determination for the Entrapment Criterion of Non-metallic Inclusions by the Solidification Front During Steel Centrifugal Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1933-1949	2.5	11
92	Analysis on the Deflection Angle of Columnar Dendrites of Continuous Casting Steel Billets Under the Influence of Mold Electromagnetic Stirring. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5496-5509	2.3	15
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