Joo Hyun Park

List of Publications by Year
in descending order

174 papers	5,350 citations	76326 40 h-index	118850 62 g-index
187 all docs	187 docs citations	187 times ranked	1497 citing authors

#	Article	IF	Citations
1	Control of MgOÂ·Al2O3 Spinel Inclusions in Stainless Steels. ISIJ International, 2010, 50, 1333-1346.	1.4	317
2	Amphoteric behavior of alumina in viscous flow and structure of CaO-SiO2 (-MgO)-Al2O3 slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 269-275.	2.1	186
3	FT-IR Spectroscopic Study on Structure of CaO-SiO2 and CaO-SiO2-CaF2 Slags.. ISIJ International, 2002, 42, 344-351.	1.4	155
4	Structure-Viscosity Relationship of Low-silica Calcium Aluminosilicate Melts. ISIJ International, 2014, 54, 2031-2038.	1.4	139
5	Structural Investigation of CaO-Al2O3 and CaO-Al2O3-CaF2 Slags via Fourier Transform Infrared Spectra.. ISIJ International, 2002, 42, 38-43.	1.4	110
6	Effect of CaO-Al2O3-MgO slags on the formation of MgO-Al2O3 inclusions in ferritic stainless steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 495-502.	2.1	108
7	Structure^|^ndash;Property Correlations of CaO^|^ndash;SiO2^|^ndash;MnO Slag Derived from Raman Spectroscopy. ISIJ International, 2012, 52, 1627-1636.	1.4	107
8	Inclusions in Stainless Steels â˘ A Review. Steel Research International, 2017, 88, 1700130.	1.8	105
9	Effect of CaO Addition on Iron Recovery from Copper Smelting Slags by Solid Carbon. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1352-1363.	2.1	103
10	The effect of CaF2 on the viscosities and structures of CaO-SiO2(-MgO)-CaF2 slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 723-729.	2.1	93
11	Inclusion control of ferritic stainless steel by aluminum deoxidation and calcium treatment. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 67-73.	2.1	87
12	Effect of inclusions on the solidification structures of ferritic stainless steel: Computational and experimental study of inclusion evolution. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2011, 35, 455-462.	1.6	86
13	Recovery of iron and removal of hazardous elements from waste copper slag via a novel aluminothermic smelting reduction (ASR) process. Journal of Cleaner Production, 2016, 137, 777-787.	9.3	85
14	Formation Mechanism of Spinel-Type Inclusions in High-Alloyed Stainless Steel Melts. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 657-663.	2.1	83
15	Characterization of Nonmetallic Inclusions in High-Manganese and Aluminum-Alloyed Austenitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2316-2324.	2.2	79
16	Thermodynamics of the Formation of MgO-Al2O3-TiO x Inclusions in Ti-Stabilized 11Cr Ferritic Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 853-861.	2.1	77
17	Novel Approach to Link between Viscosity and Structure of Silicate Melts via Darkenâ€™s Excess Stability Function: Focus on the Amphoteric Behavior of Alumina. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 150-153.	2.1	75
18	Effect of Complex Inclusion Particles on the Solidification Structure of Fe-Ni-Mn-Mo Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1550-1564.	2.1	75

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19	Effect of ferrosilicon addition on the composition of inclusions in 16Cr-14Ni-Si stainless steel melts. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2006, 37, 791-797.	2.1	72
20	Thermodynamic investigation on the formation of inclusions containing MgAl2O4 spinel during 16Crâ€“14Ni austenitic stainless steel manufacturing processes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 472, 43-51.	5.6	71
21	Structureâ€“Property Relationship of CaO-MgO-SiO2 Slag: Quantitative Analysis of Raman Spectra. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 938-947.	2.1	67
22	Effect of CaF2 Addition on the Viscosity and Structure of CaOâ€“SiO2â€“MnO Slags. ISIJ International, 2013, 53, 958-965.	1.4	64
23	Influence of Ti on non-metallic inclusion formation and acicular ferrite nucleation in high-strength low-alloy steel weld metals. Metals and Materials International, 2014, 20, 119-127.	3.4	63
24	Effect of Slag Composition on the Concentration of Al2O3 in the Inclusions in Si-Mn-killed Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 953-960.	2.1	63
25	Refractoryâ€“Slagâ€“Metalâ€“Inclusion Multiphase Reactions Modeling Using Computational Thermodynamics: Kinetic Model for Prediction of Inclusion Evolution in Molten Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 46-59.	2.1	63
26	Compositionâ€“structureâ€“property relationships of CaOâ€“MOâ€“SiO2 (M=Mg2+, Mn2+) systems derived from micro-Raman spectroscopy. Journal of Non-Crystalline Solids, 2012, 358, 3096-3102.	3.1	60
27	Characterization of non-metallic inclusions and their influence on the mechanical properties of a FCC single-phase high-entropy alloy. Journal of Alloys and Compounds, 2018, 763, 546-557.	5.5	59
28	Influence of Refractory-Steel Interfacial Reaction on the Formation Behavior of Inclusions in Ce-containing Stainless Steel. ISIJ International, 2015, 55, 2589-2596.	1.4	58
29	Effect of fluorspar and alumina on the viscous flow of calcium silicate melts containing MgO. Journal of Non-Crystalline Solids, 2004, 337, 150-156.	3.1	56
30	Interfacial Reaction Between CaO-SiO2-MgO-Al2O3 Flux and Fe-xMn-yAl (xÂ=Â10 and 20 mass pct, yÂ=Â1, 3, and) Tj ETQq0 0 0 rgBT /O and Materials Processing Science, 2012, 43, 875-886.	2.1	56
31	In situ observation of the dissolution phenomena of SiC particle in CaOâ€“SiO2â€“MnO slag. Journal of the European Ceramic Society, 2010, 30, 3181-3186.	5.7	53
32	Effect of Mgâ€“Ti Deoxidation on the Formation Behavior of Equiaxed Crystals During Rapid Solidification of Iron Alloys. Steel Research International, 2014, 85, 1303-1309.	1.8	53
33	Corrosion Behaviors of Zirconia Refractory by CaOâ€“SiO₂â€“MgOâ€“CaF₂ Slag. Journal of the American Ceramic Society, 2009, 92, 717-723.	3.8	51
34	Sulfide Capacity of the CaOâ€“SiO2â€“MnO Slag at 1873 K. ISIJ International, 2011, 51, 1375-1382.	1.4	49
35	Sulfide Capacity of CaO–SiO₂–MnO–Al₂O₃&am Slags at 1873 K. ISIJ International, 2012, 52, 764-769.	1.4	49
36	Effect of silicate structure on thermodynamic properties of calcium silicate melts: Quantitative analysis of Raman spectra. Metals and Materials International, 2013, 19, 577-584.	3.4	49

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37	Foaming Behavior of CaO-SiO2-FeO-MgOsatd-X (X=Al2O3,MnO, P2O5, and CaF2) Slags at High Temperatures.. ISIJ International, 2001, 41, 317-324.	1.4	47
38	Interfacial Reaction between Refractory Materials and Metallurgical Slags containing Fluoride. Steel Research International, 2010, 81, 860-868.	1.8	45
39	Effect of Energy Input on the Characteristic of AISI H13 and D2 Tool Steels Deposited by a Directed Energy Deposition Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2529-2535.	2.2	44
40	On the Dissolution Behavior of Sulfur in Ternary Silicate Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 1211-1217.	2.1	42
41	Modification of Inclusions in Molten Steel by Mg-Ca Transfer from Top Slag: Experimental Confirmation of the â€˜Refractory-Slag-Metal-Inclusion (ReSMI)â€™ Multiphase Reaction Model. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2820-2825.	2.1	41
42	Precipitate behavior in nitrogen-containing CoCrNi medium-entropy alloys. Materials Characterization, 2019, 157, 109888.	4.4	41
43	Kinetic Modeling of Nonmetallic Inclusions Behavior in Molten Steel: A Review. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2453-2482.	2.1	41
44	Carbide Capacity of CaOâ€“SiO2â€“MnO Slag for the Production of Manganese Alloys. ISIJ International, 2010, 50, 1078-1083.	1.4	36
45	Solidification structure of CaOâ€“SiO2â€“MgOâ€“Al2O3Â(â€“CaF2) systems and computational phase equilibria: Crystallization of MgAl2O4 spinel. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 428-437.	1.6	35
46	Thermodynamics of Titanium Oxide in CaOâ€“SiO2â€“Al2O3â€“MgOsatdâ€“CaF2 Slag Equilibrated with Feâ€“11mass%Cr Melt. ISIJ International, 2009, 49, 337-342.	1.4	35
47	Effect of Al deoxidation on the formation behavior of inclusions in Ce-added stainless steel melts. Metals and Materials International, 2014, 20, 959-966.	3.4	33
48	Solidification Behavior of Calcium Aluminosilicate Melts Containing Magnesia and Fluorspar. Journal of the American Ceramic Society, 2006, 89, 608-615.	3.8	32
49	Effect of Slag Composition on the Distribution Behavior of Pb between FetO-SiO2 (-CaO, Al2O3) Slag and Molten Copper. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1098-1105.	2.1	32
50	Evolution of Oxide Inclusions in Si-Mn-Killed Steel During Protective Atmosphere Electroslag Remelting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1139-1147.	2.1	32
51	Non-metallic Inclusions in Different Ferroalloys and Their Effect on the Steel Quality: A Review. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2892-2925.	2.1	32
52	Phase diagram study for the CaO-SiO2-Cr2O3-5 mass.%MgO-10 mass.%MnO system. Metals and Materials International, 2009, 15, 677-681.	3.4	31
53	Influence of CaF2 on the Viscosity and Structure of Manganese Ferroalloys Smelting Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 741-748.	2.1	31
54	EffectÂof Physicochemical Properties of Slag and Flux on the Removal Rate of Oxide Inclusion from Molten Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3225-3230.	2.1	31

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55	Formation of CaZrO3 at the interface between CaOâ€“SiO2â€“MgOâ€“CaF2(â€“ZrO2) slags and magnesia refractories: Computational and experimental study. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 149-154.	1.6	30
56	Dissolution Behavior of Indium in CaO-SiO2-Al2O3 Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 1224-1230.	2.1	30
57	Hot Metal Desulfurization by CaOâ€“SiO2â€“CaF2â€“Na2O Slag Saturated with MgO. ISIJ International, 2010, 50, 215-221.	1.4	29
58	Thermodynamic Stability of Spinel Phase at the Interface Between Alumina Refractory and CaOâ€“CaF₂â€“SiO₂â€“Al₂O₃â€“MgOâ€“MnO Slags. Journal of the American Ceramic Society, 2015, 98, 1974-1981.	3.8	29
59	Effect of Rice Husk Ash Insulation Powder on the Reoxidation Behavior of Molten Steel in Continuous Casting Tundish. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1736-1747.	2.1	29
60	Massive Recycling of Waste Mobile Phones: Pyrolysis, Physical Treatment, and Pyrometallurgical Processing of Insoluble Residue. ACS Sustainable Chemistry and Engineering, 2019, 7, 14119-14125.	6.7	29
61	Quantitative analysis of the relative basicity of CaO and BaO by silver solubility in slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1999, 30, 689-694.	2.1	28
62	Formation Mechanism of Oxide-Sulfide Complex Inclusions in High-Sulfur-Containing Steel Melts. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 311-324.	2.1	28
63	Solubility of Nitrogen in High Manganese Steel (HMnS) Melts: Interaction Parameter between Mn and N. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 1081-1085.	2.1	26
64	Effect of Slag Chemistry on the Desulfurization Kinetics in Secondary Refining Processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2123-2135.	2.1	26
65	Effect of CaO/Al₂O₃ Ratio of Ladle Slag on Formation Behavior of Inclusions in Mn and V Alloyed Steel. ISIJ International, 2018, 58, 88-97.	1.4	26
66	Interfacial reaction between magnesia refractory and â€œFeOâ€•rich slag: Formation of magnesiowÃ¼stite layer. Ceramics International, 2019, 45, 10481-10491.	4.8	26
67	Oxide Formation Mechanisms in High Manganese Steel Welds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2046-2054.	2.2	25
68	Vitrification of red mud with mine wastes through melting and granulation process â€“ Preparation of glass ball. Journal of Non-Crystalline Solids, 2017, 475, 129-135.	3.1	25
69	Discussion on "The Estimation of the Iso-viscosity Lines in Molten CaF2-CaO-SiO2 System". ISIJ International, 2007, 47, 1368-1369.	1.4	25
70	TEM characterization of a TiN-MgAl2O4 epitaxial interface. Journal of Alloys and Compounds, 2017, 695, 476-481.	5.5	24
71	Influence of CaF2 in calcium aluminate-based slag on the degradation of magnesia refractory. Ceramics International, 2018, 44, 13197-13204.	4.8	24
72	Synergistic Effect of Nitrogen and Refractory Material on TiN Formation and Equiaxed Grain Structure of Ferritic Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 877-893.	2.1	24

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73	Viscosityâ€structure relationship of alkaline earth silicate melts containing manganese oxide and calcium fluoride. Journal of the American Ceramic Society, 2019, 102, 4943-4955.	3.8	24
74	Mn-Depleted Zone Formation in Rapidly Cooled High-Strength Low-Alloy Steel Welds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4753-4757.	2.2	23
75	Thermodynamics of Gold Dissolution Behavior in CaO-SiO2-Al2O3-MgOsat Slag System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2449-2457.	2.1	23
76	Sulfurization of Fe-Ni-Cu-Co Alloy to Matte Phase by Carbothermic Reduction of Calcium Sulfate. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1103-1112.	2.1	22
77	Corrosion-erosion behavior of MgAl2O4 spinel refractory in contact with high MnO slag. Ceramics International, 2017, 43, 15074-15079.	4.8	22
78	Crystallization and vitrification behavior of CaO-SiO2-FetO-Al2O3 slag: Fundamentals to use mineral wastes in production of glass ball. Journal of Cleaner Production, 2019, 225, 743-754.	9.3	22
79	The effect of boron oxide on the crystallization behavior of MgAl2O4 spinel phase during the cooling of the CaO-SiO2-10 mass.% MgO-30 mass.%Al2O3 systems. Metals and Materials International, 2010, 16, 987-992.	3.4	21
80	Sulfide Capacity and Excess Free Energy of CaO^|^ndash;SiO2^|^ndash;MnO Slag Derived from Structural Analysis of Raman Spectra. ISIJ International, 2012, 52, 2303-2304.	1.4	21
81	Distribution Behavior of Aluminum and Titanium Between Nickel-Based Alloys and Molten Slags in the Electro Slag Remelting (ESR) Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2147-2156.	2.1	21
82	Structural Understanding of MnOâ€"SiO2â€"Al2O3â€"Ce2O3 Slag via Raman, 27Al NMR and X-ray Photoelectron Spectroscopies. Metals and Materials International, 2020, 26, 1872-1880.	3.4	21
83	Reduction Behavior of EAF Slags Containing Cr2O3 Using Aluminum at 1793 K. ISIJ International, 2004, 44, 790-794.	1.4	20
84	Variation in the Chemical Driving Force for Intragranular Nucleation in the Multi-pass Weld Metal of Ti-Containing High-Strength Low-Alloy Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3581-3591.	2.2	20
85	Effect of CaF2 Addition on the Silicothermic Reduction of MnO in Ferromanganese Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1154-1161.	2.1	20
86	Prediction of Inclusion Evolution During Refining and Solidification of Steel: Computational Simulation and Experimental Confirmation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1211-1224.	2.1	20
87	Sulfide Capacity and Phase Equilibria of MnO-TiO2-MnS System at 1723 K.. ISIJ International, 2001, 41, 1460-1464.	1.4	19
88	Thermodynamics of Fluoride Vaporisation from Slags containing CaF₂at 1773 K. Steel Research International, 2004, 75, 807-811.	1.8	19
89	Competitive Dissolution Mechanism of Sulfur in Caï£¿Mnï£¿Silicate Melts: Structural View. Steel Research International, 2013, 84, 664-669.	1.8	19
90	Relationship Between Sulfide Capacity and Structure of MnO-SiO2-Al2O3-Ce2O3 System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 545-553.	2.1	19

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91	Carbide Capacity of CaO-SiO2-CaF2(-Na2O) Slags at 1773 K. ISIJ International, 2004, 44, 223-228.	1.4	18
92	Method of recycling titanium scraps via the electromagnetic cold crucible technique coupled with calcium treatment. Journal of Alloys and Compounds, 2017, 727, 931-939.	5.5	18
93	Strengthening of ultrafine-grained equiatomic CoCrFeMnNi high-entropy alloy by nitrogen addition. Materials Letters, 2020, 258, 126772.	2.6	18
94	Influence of Manufacturing Conditions on Inclusion Characteristics and Mechanical Properties of FeCrNiMnCo Alloy. Metals, 2020, 10, 1286.	2.3	18
95	Electrochemical Method for Controlling the Interfacial Oxygen in Molten Fe with ZrO2 Based Solid Electrolyte. ISIJ International, 2009, 49, 1882-1888.	1.4	18
96	Solubility of carbon in CaO-B2O3 and BaO-B2O3 slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1999, 30, 1045-1052.	2.1	16
97	Dissolution Mechanism of Indium in CaO-Al2O3-SiO2 Slag at Low Silica Region. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 440-442.	2.1	16
98	Influence of Aluminum on the Formation Behavior of Zn-Al-Fe Intermetallic Particles in a Zinc Bath. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 195-207.	2.2	16
99	Effect of Direct Reduced Iron (DRI) on Dephosphorization of Molten Steel by Electric Arc Furnace Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3381-3389.	2.1	16
100	Investigation on the precipitate formation and behavior in nitrogen-containing equiatomic CoCrFeMnNi high-entropy alloy. Materials Letters, 2020, 258, 126806.	2.6	16
101	Thermodynamics of iron redox equilibria and viscosity-structure relationship of CaO Al2O3FetO melts. Journal of Non-Crystalline Solids, 2020, 542, 120089.	3.1	16
102	Effect of Fluorspar and Industrial Wastes (Red Mud and Ferromanganese Slag) on Desulfurization Efficiency of Molten Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2309-2320.	2.1	16
103	Effect of ZrO₂ Addition to the CaO-SiO₂-MgO-CaF₂ Slags on the Sulfur Removal from the 16Cr-14Ni Stainless Steel Melts. Materials Transactions, 2006, 47, 2038-2043.	1.2	15
104	Thermodynamics of Reducing Refining of Phosphorus from Si-Mn Alloy Using CaO-CaF2 Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1243-1246.	2.1	15
105	Thermodynamics of Indium Dissolution Behavior in FeO-Bearing Metallurgical Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 235-242.	2.1	15
106	Thermochemical analysis for the reduction behavior of FeO in EAF slag via Aluminothermic Smelting Reduction (ASR) process: Part II. Effect of aluminum dross and lime fluxing on Fe and Mn recovery. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 58, 229-238.	1.6	15
107	Viscosity-Structure Relationship of CaOâ€“Al₂O₃â€“Fe_tOâ€“SiO₂â€“MgO Ruhrstahl-Heraeus (RH) Refining Slags. ISIJ International, 2021, 61, 724-733.	1.4	15
108	Initial Wetting and Spreading Rates Between SiC and CaO-SiO2-MnO Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1832-1838.	2.1	14

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109	Thermochemical analysis for the reduction behavior of FeO in EAF slag via Aluminothermic Smelting Reduction (ASR) process: Part Î™. Effect of aluminum on Fe & Mn recovery. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 58, 219-228.	1.6	14
110	Effect of CaF2 on Phosphorus Refining from Molten Steel by Electric Arc Furnace Slag using Direct Reduced Iron (DRI) as a Raw Material. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 3028-3038.	2.1	14
111	Inclusion engineering in Co-based duplex entropic alloys. Materials and Design, 2021, 210, 110097.	7.0	14
112	Effect of nitrogen on grain growth and formability of Ti-stabilized ferritic stainless steels. Scientific Reports, 2019, 9, 6369.	3.3	12
113	Effect of fluorspar on the interfacial reaction between electric arc furnace slag and magnesia refractory: Competitive corrosion-protection mechanism of magnesiowÃ¼stite layer. Ceramics International, 2021, 47, 20387-20398.	4.8	12
114	Thermodynamic behavior of nickel in CaO-SiO2-FetO slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 55-59.	2.1	11
115	Conversion of Calcium Phosphide to Calcium Phosphate in Reducing Dephosphorization Slags by Oxygen Injection. ISIJ International, 2013, 53, 2266-2268.	1.4	11
116	Manganese Recovery by Silicothermic Reduction of MnO in BaO-MnO-MgO-CaF2 (-SiO2) Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 514-518.	2.1	11
117	Influence of calcium aluminate flux on reoxidation behaviour of molten steel during continuous casting process. Ironmaking and Steelmaking, 2020, 47, 84-92.	2.1	11
118	Distribution characteristics of inclusions along with the surface sliver defect on the exposed panel of automobile: A quantitative electrolysis method. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1489-1498.	4.9	11
119	Mechanical Performance Improvement by Nitrogen Addition in N-CoCrNi Compositionally Complex Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3228-3237.	2.2	11
120	Observations of FeO Reduction in Electric Arc Furnace Slag by Aluminum Black Dross: Effect of CaO Fluxing on Slag Morphology. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1201-1210.	2.1	11
121	Role of recrystallization and second phases on mechanical properties of (CoCrFeMnNi)95.2Al3.2Ti1.6 high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141249.	5.6	11
122	Mechanism of MgO dissolution in MgF2â€“CaF2â€“MF (M=Li or Na) melts: Kinetic analysis via in-situ high temperature confocal scanning laser microscopy (HT-CSLM). Ceramics International, 2019, 45, 20251-20257.	4.8	10
123	Influence of Temperature on Reaction Mechanism of Ilmenite Ore Smelting for Titanium Production. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1830-1840.	2.1	10
124	Interfacial reactions between magnesia refractory and electric arc furnace (EAF) slag with use of direct reduced iron (DRI) as raw material. Ceramics International, 2022, 48, 4526-4538.	4.8	10
125	Isothermal and non-isothermal sublimation kinetics of zirconium tetrachloride (ZrCl4) for producing nuclear grade Zr. Materials Chemistry and Physics, 2014, 143, 1075-1081.	4.0	9
126	Effect of LCFeCr Alloy Additions on the Non-metallic Inclusion Characteristics in Ti-Containing Ferritic Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3815-3832.	2.1	9

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127	Assessment of Physicochemical Properties of Electrical Arc Furnace Slag and Their Effects on Foamability. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2959-2968.	2.1	8
128	Influence of Exposure Temperature on Degradation of Magnesia Refractory by Steel Refining Slags. Metals and Materials International, 2019, 25, 1360-1365.	3.4	8
129	Mechanism of Improving Heat-Affected Zone Toughness of Steel Plate with Mg Deoxidation after High-Heat-Input Welding. Metals, 2020, 10, 162.	2.3	8
130	Thermodynamic study on the effect of CaF₂on the nitrogen and carbon solubility in the CaO-Al₂O₃-CaF₂slag system. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1999, 70, 215-220.	0.3	7
131	Solubility of Silver in MO (M₂O)–B₂O₃ (M = Ca,) Tj ETQq1 1 0.784314 rg	0.9	7
132	Carbide Capacity of CaO-Al2O3-CaF2 Slag at 1773 K.. ISIJ International, 2002, 42, 127-131.	1.4	7
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