

Bart Blanpain

List of Publications by Year in descending order

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304
papers

12,219
citations

47006

47
h-index

34986

98
g-index

322
all docs

322
docs citations

322
times ranked

8715
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective removal of arsenic from crude antimony trioxide by leaching with nitric acid. Separation and Purification Technology, 2022, 281, 119976.	7.9	7
2	Investigation of Bath/Freeze Lining Interface Temperature Based on the Rheology of the Slag. Jom, 2022, 74, 274-282.	1.9	5
3	Zn Fuming Kinetics in a Bubble-Stirred Molten Slag Bath. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1308-1319.	2.1	5
4	Correlating the amorphous phase structure of vitrified bauxite residue (red mud) to the initial reactivity in binder systems. Cement and Concrete Composites, 2022, 127, 104410.	10.7	12
5	Growth mechanism of Al-Ti-O inclusions in steelmaking process. Metallurgical Research and Technology, 2022, 119, 209.	0.7	2
6	Hydrogen reduction of bauxite residue and selective metal recovery. Materials Today: Proceedings, 2022, 57, 705-710.	1.8	8
7	Capillary Interaction Between Micron-Sized Ce ₂ O ₃ Inclusions at the Ar Gas/Liquid Steel Interface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1775-1791.	2.1	5
8	Understanding the relationship between slag crystallization behaviour and electrical conductivity under isothermal conditions for online slag solidification monitoring in slag recycling. Resources, Conservation and Recycling, 2022, 182, 106319.	10.8	4
9	Role of Interfacial Properties in the Evolution of Non-metallic Inclusions in Liquid Steel. ISIJ International, 2022, 62, 1573-1585.	1.4	5
10	Kinetic Aspects of Aluminum Oxide Dissolution in Molten BOF Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1614-1625.	2.1	3
11	Determination of the $\text{Fe}^{3+}/\sigma\text{Fe}$ Ratio in Synthetic Lead Silicate Slags Using X-Band CW-EPR. Journal of Sustainable Metallurgy, 2021, 7, 519-536.	2.3	4
12	On the CO Desorption and Absorption in Liquid Low-carbon Steel. ISIJ International, 2021, 61, 1357-1362.	1.4	3
13	Thermodynamic Analysis of Copper Smelting, Considering the Impact of Minor Elements Behavior on Slag Application Options and Cu Recovery. Journal of Sustainable Metallurgy, 2021, 7, 664-683.	2.3	9
14	In Situ Electrical Conductivity Measurement by Using Confocal Scanning Laser Microscopy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2563-2572.	2.1	7
15	CO Desorption and Absorption in Molten Steel: A Review. ISIJ International, 2021, 61, 1337-1347.	1.4	3
16	A First-Principles Tool to Discover New Pyrometallurgical Refining Options. Jom, 2021, 73, 2900-2910.	1.9	1
17	Mathematical Methodology and Metallurgical Application of Turbulence Modelling: A Review. Metals, 2021, 11, 1297.	2.3	6
18	Inertial Force on Floating Inclusion Particles at the Interface of Liquid Steel and Inert Gas. ISIJ International, 2021, 61, 2400-2409.	1.4	5

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19	Characterization of antimony-containing metallurgical residues for antimony recovery. <i>Journal of Cleaner Production</i> , 2021, 327, 129491.	9.3	7
20	H ₂ -Based Processes for Fe and Al Recovery from Bauxite Residue (Red Mud): Comparing the Options. <i>Materials Proceedings</i> , 2021, 5, .	0.2	3
21	Selective Roasting of Nd-Fe Permanent Magnets as a Pretreatment Step for Intensified Leaching with an Ionic Liquid. <i>Journal of Sustainable Metallurgy</i> , 2020, 6, 91-102.	2.3	26
22	An integrated process for iron recovery and binder production from bauxite residue (red mud). <i>Materials Letters</i> , 2020, 264, 127273.	2.6	3
23	Modelling of gas injection into a viscous liquid through a top-submerged lance. <i>Chemical Engineering Science</i> , 2020, 212, 115359.	3.8	18
24	Experimental investigation of the phase relations in the SiO ₂ -Dy ₂ O ₃ -CaO ternary system. <i>Ceramics International</i> , 2020, 46, 23534-23543.	4.8	3
25	Quantification of the Fe ³⁺ concentration in lead silicate glasses using X-band CW-EPR. <i>Journal of Non-Crystalline Solids</i> , 2020, 536, 120002.	3.1	11
26	Mixing Characteristics of Additives in Viscous Liquid BOF Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2147-2158.	2.1	2
27	Laser-induced breakdown spectroscopy analysis of the free surface of liquid secondary copper slag. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 170, 105921.	2.9	3
28	The Impact of Sample Homogeneity, Crucible Material, and Oxygen Partial Pressure on the Crystallization of Fe-Rich Oxidic Slag in CLSM Experiments. <i>Journal of Sustainable Metallurgy</i> , 2020, 6, 216-226.	2.3	6
29	Investigations on Crystallization Processes of Three Oxidic Gasifier Slag Systems. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	4
30	Experimental Investigation on Metallic Droplet Behavior in Molten BOF Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2354-2361.	2.1	5
31	The influence of air and temperature on the reaction mechanism and molecular structure of Fe-silicate inorganic polymers. <i>Journal of Non-Crystalline Solids</i> , 2019, 526, 119675.	3.1	19
32	Inorganic Polymers From CaO-FeOx-SiO ₂ Slag: The Start of Oxidation of Fe and the Formation of a Mixed Valence Binder. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	32
33	Chlorine Addition to Existing Zinc Fuming Processes: A Thermodynamic Study. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 538-550.	2.3	3
34	Simulation of particle migration during viscosity measurement of solid-bearing slag using a spindle rotational type viscometer. <i>Chemical Engineering Science</i> , 2019, 207, 172-180.	3.8	4
35	Experimental Study on the Viscosity of Stainless Steelmaking Slags. <i>ISIJ International</i> , 2019, 59, 404-411.	1.4	8
36	Alkali-activation of CaO-FeOx-SiO ₂ slag: Formation mechanism from in-situ X-ray total scattering. <i>Cement and Concrete Research</i> , 2019, 122, 179-188.	11.0	46

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37	Influence of Al ₂ O ₃ Level in CaO-SiO ₂ -MgO-Al ₂ O ₃ Refining Slags on Slag/Magnesia-Doloma Refractory Interactions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1822-1829.	2.1	6
38	Dissolution Behavior and Phase Evolution During Aluminum Oxide Dissolution in BOF Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1782-1790.	2.1	9
39	Experimental and Mathematical Simulation Study on the Granulation of a Modified Basic Oxygen Furnace Steel Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1260-1268.	2.1	4
40	Recovery of Rare Earths from Bauxite Residue (Red Mud). World Scientific Series in Current Energy Issues, 2019, , 343-356.	0.1	3
41	Effect of Al ₂ O ₃ Addition on Mineralogical Modification and Crystallization Kinetics of a High Basicity BOF Steel Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 271-281.	2.1	17
42	Modifications of basic-oxygen-furnace slag microstructure and their effect on the rheology and the strength of alkali-activated binders. Cement and Concrete Composites, 2019, 97, 143-153.	10.7	19
43	Optimization of Mineralogy and Microstructure of Solidified Basic Oxygen Furnace Slag Through SiO ₂ Addition or Atmosphere Control During Hot-Stage Slag Treatment. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 210-218.	2.1	12
44	Evaluating the material resource efficiency of secondary aluminium production: A Monte Carlo-based decision-support tool. Journal of Cleaner Production, 2019, 215, 488-496.	9.3	12
45	Densification mechanism of porous alumina plugs by molten steel with different oxygen levels. Journal of the European Ceramic Society, 2018, 38, 2662-2670.	5.7	15
46	Assessment of Gas-Slag-Metal Interaction During a Converter Steelmaking Process. Minerals, Metals and Materials Series, 2018, , 353-364.	0.4	1
47	Quantitative Study on Dissolution Behavior of Nd ₂ O ₃ in Fluoride Melts. Industrial & Engineering Chemistry Research, 2018, 57, 1380-1388.	3.7	21
48	Non-Newtonian behavior of solid-bearing silicate melts: An experimental study. Journal of Non-Crystalline Solids, 2018, 493, 65-72.	3.1	16
49	Modes of occurrences of scandium in Greek bauxite and bauxite residue. Minerals Engineering, 2018, 123, 35-48.	4.3	75
50	Degradation mechanisms of alumina-chromia refractories for secondary copper smelter linings. Corrosion Science, 2018, 136, 409-417.	6.6	41
51	Mix-design Parameters and Real-life Considerations in the Pursuit of Lower Environmental Impact Inorganic Polymers. Waste and Biomass Valorization, 2018, 9, 879-889.	3.4	39
52	Effect of Crystallization on the Abrupt Viscosity Increase during the Slag Cooling Process. ISIJ International, 2018, 58, 1972-1978.	1.4	16
53	Rheological Transitions of the Solid-Bearing Slag During Cooling Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2649-2657.	2.1	4
54	Molecular structure of CaO-FeO _x -SiO ₂ glassy slags and resultant inorganic polymer binders. Journal of the American Ceramic Society, 2018, 101, 5846-5857.	3.8	40

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55	Aluminum Deoxidation Equilibrium of Fe-Ni Alloy at 1773ÅK and 1873ÅK. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2389-2399.	2.1	8
56	Rare Earth Element Phases in Bauxite Residue. Minerals (Basel, Switzerland), 2018, 8, 77.	2.0	58
57	Theoretical Prediction and Synthesis of $(Cr_{2/3}Zr_{1/3})_{2}AlC$ MAX Phase. Inorganic Chemistry, 2018, 57, 6237-6244.	4.0	59
58	Numerical Modeling of Liquid-Liquid Mass Transfer and the Influence of Mixing in Gas-Stirred Ladles. Jom, 2018, 70, 2109-2118.	1.9	19
59	Hydrodynamics study of bubbly flow in a top-submerged lance vessel. Chemical Engineering Science, 2018, 192, 1091-1104.	3.8	27
60	Viscosity of Heterogeneous Silicate Melts: A Review. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2469-2486.	2.1	28
61	Quantification of uncertainty in thermodynamic predictions for vacuum refining of liquid Ag-Pb and Au-Pb binary alloys. Vacuum, 2018, 155, 398-402.	3.5	0
62	In-situ Observation of the Precipitation Behavior of a Dy ₂ O ₃ Containing Slag System. Minerals, Metals and Materials Series, 2018, , 323-328.	0.4	0
63	Recovery of Rare Earths and Major Metals from Bauxite Residue (Red Mud) by Alkali Roasting, Smelting, and Leaching. Journal of Sustainable Metallurgy, 2017, 3, 393-404.	2.3	65
64	Study of the Effect of Spinel Composition on Metallic Copper Losses in Slags. Journal of Sustainable Metallurgy, 2017, 3, 416-427.	2.3	15
65	Valorization of BOF Steel Slag by Reduction and Phase Modification: Metal Recovery and Slag Valorization. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1602-1612.	2.1	34
66	Transforming Enhanced Landfill Mining Derived Gasification/Vitrification Glass into Low-Carbon Inorganic Polymer Binders and Building Products. Journal of Sustainable Metallurgy, 2017, 3, 405-415.	2.3	24
67	CSLM study on the interaction of Nd ₂ O ₃ with CaCl ₂ and CaF ₂ -LiF molten melts. Journal of Materials Science, 2017, 52, 1717-1726.	3.7	10
68	Investigation of Origin of Attached Cu-Ag Droplets to Solid Particles During High-Temperature Slag/Copper/Spinel Interactions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3058-3073.	2.1	10
69	Extraction of neodymium by direct reduction of NdOCl in molten calcium chloride. Electrochimica Acta, 2017, 257, 465-472.	5.2	14
70	Investigation of Reactive Origin for Attachment of Cu Droplets to Solid Particles. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2459-2468.	2.1	6
71	Effect of Surfactant Te on the Formation of MnS Inclusions in Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2447-2458.	2.1	31
72	Viscosity of Heterogeneous Silicate Melts: A Non-Newtonian Model. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3027-3037.	2.1	8

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73	Comparative oxidation behavior of Nd-Fe-B magnets for potential recycling methods: Effect of hydrogenation pre-treatment and magnet composition. <i>Journal of Alloys and Compounds</i> , 2017, 728, 727-738.	5.5	12
74	Metal Recovery from BOF Steel Slag by Carbo-thermic Reduction. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2017, 162, 258-262.	1.0	2
75	Characterization of landfilled stainless steel slags in view of metal recovery. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 353-362.	4.4	9
76	Utilization of Stainless-steel Furnace Dust as an Admixture for Synthesis of Cement-based Electromagnetic Interference Shielding Composites. <i>Scientific Reports</i> , 2017, 7, 15368.	3.3	25
77	Hydrometallurgical recycling of NdFeB magnets: Complete leaching, iron removal and electrolysis. <i>Journal of Rare Earths</i> , 2017, 35, 574-584.	4.8	69
78	Recycling of NdFeB magnets using nitration, calcination and water leaching for REE recovery. <i>Hydrometallurgy</i> , 2017, 167, 115-123.	4.3	61
79	Viscosity of Heterogeneous Silicate Melts: Assessment of the Measured Data and Modeling. <i>ISIJ International</i> , 2017, 57, 1895-1901.	1.4	14
80	The Chemical Stability and Electrochemical Behavior of Dy ₂ O ₃ in Molten CaCl ₂ . <i>Minerals, Metals and Materials Series</i> , 2017, , 23-30.	0.4	0
81	Effect of Alumina Morphology on the Clustering of Alumina Inclusions in Molten Iron. <i>ISIJ International</i> , 2016, 56, 926-935.	1.4	34
82	Effect of Impurity Te on the Morphology of Alumina Particles in Molten Iron. <i>ISIJ International</i> , 2016, 56, 1529-1536.	1.4	4
83	Influence of FeO/SiO ₂ and CaO/SiO ₂ Ratios in Iron-Saturated ZnO-Rich Fayalite Slags on the Corrosion of MgO. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3754-3760.	3.8	20
84	Volume-of-fluid simulations of bubble dynamics in a vertical Hele-Shaw cell. <i>Physics of Fluids</i> , 2016, 28, 053304.	4.0	26
85	Stabilization of Free Lime in BOF Slag by Melting and Solidification in Air. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 3237-3240.	2.1	15
86	Effect of Al ₂ O ₃ and SiO ₂ Addition on the Viscosity of BOF Slag. , 2016, , 439-446.		5
87	Selective recovery of rare earths from bauxite residue by combination of sulfation, roasting and leaching. <i>Minerals Engineering</i> , 2016, 92, 151-159.	4.3	140
88	Degradation mechanisms of alumina-silica runner refractories by carbon steel during ingot casting process. <i>Ceramics International</i> , 2016, 42, 10209-10214.	4.8	13
89	Investigation of High-Temperature Slag/Copper/Spinel Interactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 3421-3434.	2.1	20
90	Thermodynamic assessment of the Nd ₂ O ₃ -CaO-SiO ₂ ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016, 55, 157-164.	1.6	6

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91	Spinel saturation of a PbO based slag as a method to mitigate the chemical degradation of magnesia-chromite bricks. Journal of the European Ceramic Society, 2016, 36, 4291-4299.	5.7	5
92	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. Journal of Sustainable Metallurgy, 2016, 2, 365-386.	2.3	231
93	Sessile drop evaluation of high temperature copper/spinel and slag/spinel interactions. Transactions of Nonferrous Metals Society of China, 2016, 26, 2770-2783.	4.2	13
94	A Proposal for a 100% Use of Bauxite Residue Towards Inorganic Polymer Mortar. Journal of Sustainable Metallurgy, 2016, 2, 394-404.	2.3	52
95	Effect of surfactant Te on the behavior of alumina inclusions at advancing solid-liquid interfaces of liquid steel. Acta Materialia, 2016, 120, 443-452.	7.9	10
96	Comparative Analysis of Processes for Recovery of Rare Earths from Bauxite Residue. Jom, 2016, 68, 2958-2962.	1.9	18
97	Study of Phase Relations of ZnO-Containing Fayalite Slag Under Fe Saturation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2820-2829.	2.1	4
98	Phase Relations of the CaO-SiO ₂ -Nd ₂ O ₃ System and the Implication for Rare Earths Recycling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1736-1744.	2.1	15
99	Crystal structure of apatite type Ca _{2.49} Nd _{7.51} (SiO ₄) ₆ O _{1.75} . Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 209-211.	0.5	5
100	Origin and sedimentation of Cu-droplets sticking to spinel solids in pyrometallurgical slags. Materials Science and Technology, 2016, 32, 1911-1924.	1.6	30
101	Effect of ZnO level in secondary copper smelting slags on slag/magnesia-chromite refractory interactions. Journal of the European Ceramic Society, 2016, 36, 1821-1828.	5.7	32
102	Identification of magnesia-chromite refractory degradation mechanisms of secondary copper smelter linings. Journal of the European Ceramic Society, 2016, 36, 2119-2132.	5.7	45
103	Comparison of the chemical corrosion resistance of magnesia-based refractories by stainless steelmaking slags under vacuum conditions. Ceramics International, 2016, 42, 743-751.	4.8	26
104	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. Journal of Sustainable Metallurgy, 2016, 2, 28-37.	2.3	126
105	Ladle metallurgy stainless steel slag as a raw material in Ordinary Portland Cement production: a possibility for industrial symbiosis. Journal of Cleaner Production, 2016, 112, 872-881.	9.3	81
106	Effect of Basicity on Basic Oxygen Furnace (BOF) Slag Solidification Microstructure and Mineralogy. , 2016, , 1185-1190.		3
107	Rheological Behavior of Fayalite Based Secondary Copper Smelter Slag in Iron Saturation. , 2016, , 1301-1308.		2
108	Viscosity of Partially Crystallized BOF Slag. , 2016, , 263-269.		0

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109	Freeze-Lining Formation from Fayalite-Based Slags. , 2016, , 245-251.		0
110	Zn Loss into ZnFe ₂ O ₄ in an Open Type Electric Arc Furnace: An In-Process Separation Performance Model. Journal of Sustainable Metallurgy, 2015, 1, 297-303.	2.3	2
111	Alkali Activation of AOD Stainless Steel Slag Under Steam Curing Conditions. Journal of the American Ceramic Society, 2015, 98, 3062-3074.	3.8	17
112	Effect of Interfacial Properties on the Characteristics and Clustering of Alumina Inclusions in Molten Iron. ISIJ International, 2015, 55, 1891-1900.	1.4	12
113	Interfacial Reaction and Inclusion Formation at Early Stages of FeMnSi Addition to Liquid Fe. ISIJ International, 2015, 55, 1661-1668.	1.4	5
114	<i>In-situ&/i> Investigation on the Reduction of Magnesiochromite with Ferrosilicon between 1373–1573 K. ISIJ International, 2015, 55, 2289-2296.	1.4	4
115	Wetting behaviour of Cu based alloys on spinel substrates in pyrometallurgical context. Materials Science and Technology, 2015, 31, 1925-1933.	1.6	18
116	Formation of the ZnFe ₂ O ₄ phase in an electric arc furnace off-gas treatment system. Journal of Hazardous Materials, 2015, 287, 180-187.	12.4	30
117	Cementitious binders from activated stainless steel refining slag and the effect of alkali solutions. Journal of Hazardous Materials, 2015, 286, 211-219.	12.4	71
118	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. Journal of Cleaner Production, 2015, 99, 17-38.	9.3	463
119	The effect of a temperature gradient on the phase formation inside a magnesia–chromite refractory in contact with a non-ferrous PbO–SiO ₂ –MgO slag. Journal of the European Ceramic Society, 2015, 35, 2933-2942.	5.7	12
120	Gas–Solid Reaction Kinetics of ZnFe ₂ O ₄ Formation from 907 to 1100 Â°C. Journal of Physical Chemistry A, 2015, 119, 4718-4722.	2.5	5
121	The influence of ZnO in fayalite slag on the degradation of magnesia-chromite refractories during secondary Cu smelting. Journal of the European Ceramic Society, 2015, 35, 2641-2650.	5.7	38
122	Observing Nitrogen Bubbles in Liquid Zinc in a Vertical Hele-Shaw Cell. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 621-634.	2.1	2
123	Steel Reoxidation by Gunning Mass and Tundish Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1242-1251.	2.1	19
124	Early Age Microstructural Transformations of an Inorganic Polymer Made of Fayalite Slag. Journal of the American Ceramic Society, 2015, 98, 2269-2277.	3.8	48
125	Recycling of NdFeB Magnets Using Sulfation, Selective Roasting, and Water Leaching. Journal of Sustainable Metallurgy, 2015, 1, 199-215.	2.3	104
126	Numerical simulation on magnetic assembled structures of iron-based metallic particles within MMCs by a homogeneous strong magnetic field. Journal Physics D: Applied Physics, 2015, 48, 365501.	2.8	4

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127	Compatibility Issues of Yttria-Stabilized Zirconia Solid Oxide Membrane in the Direct Electro-Deoxidation of Metal Oxides. <i>Journal of the American Ceramic Society</i> , 2015, 98, 972-981.	3.8	6
128	Low temperature synthesis of forsterite from hydromagnesite and fumed silica mixture. <i>Ceramics International</i> , 2015, 41, 2234-2239.	4.8	40
129	The influence of slag compositional changes on the chemical degradation of magnesia-chromite refractories exposed to PbO-based non-ferrous slag saturated in spinel. <i>Journal of the European Ceramic Society</i> , 2015, 35, 347-355.	5.7	19
130	Interfacial Reactions at Early Stages of Mn Addition to Liquid Fe. <i>ISIJ International</i> , 2014, 54, 1209-1217.	1.4	5
131	Desulphurisation and Inclusion Behaviour of Stainless Steel Refining by Using CaO-Al ₂ O ₃ Based Slag at Low Sulphur Levels. <i>ISIJ International</i> , 2014, 54, 72-81.	1.4	17
132	Sulphide Capacity and Mineralogy of BaO and B ₂ O ₃ Modified CaO-Al ₂ O ₃ Top Slag. <i>ISIJ International</i> , 2014, 54, 1570-1577.	1.4	7
133	Interaction between Steel and Distinct Gunning Materials in the Tundish. <i>ISIJ International</i> , 2014, 54, 2551-2558.	1.4	20
134	Experimental and numerical study of buoyancy-driven single bubble dynamics in a vertical Hele-Shaw cell. <i>Physics of Fluids</i> , 2014, 26, .	4.0	31
135	Lead Recycling. , 2014, , 95-111.		10
136	Synthesis of Inorganic Polymers Using a CaO-Al ₂ O ₃ -FeO-SiO ₂ Slag. <i>Advances in Science and Technology</i> , 2014, 92, 32-37.	0.2	1
137	Hydraulic Behavior of Mechanically and Chemically Activated Synthetic Merwinite. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3973-3981.	3.8	13
138	From NdFeB magnets towards the rare-earth oxides: a recycling process consuming only oxalic acid. <i>RSC Advances</i> , 2014, 4, 64099-64111.	3.6	149
139	Investigating the binding potential of continuous casting stainless steel slag by alkali activation. <i>Advances in Cement Research</i> , 2014, 26, 256-270.	1.6	8
140	Influence of mechanical and chemical activation on the hydraulic properties of gamma dicalcium silicate. <i>Cement and Concrete Research</i> , 2014, 55, 59-68.	11.0	72
141	Stabilisation and Microstructural Modification of Stainless Steel Converter Slag by Addition of an Alumina Rich By-Product. <i>Waste and Biomass Valorization</i> , 2014, 5, 343-353.	3.4	16
142	Inorganic Polymer Cement from Fe-Silicate Glasses: Varying the Activating Solution to Glass Ratio. <i>Waste and Biomass Valorization</i> , 2014, 5, 411-428.	3.4	37
143	Degradation mechanisms and use of refractory linings in copper production processes: A critical review. <i>Journal of the European Ceramic Society</i> , 2014, 34, 849-876.	5.7	118
144	The effect of phase formation during use on the chemical corrosion of magnesia-chromite refractories in contact with a non-ferrous PbO-SiO ₂ based slag. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1599-1610.	5.7	34

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145	<i>In Situ</i> Observation on Lime Dissolution in Molten Metallurgical Slags â€™ Kinetic Aspects. Industrial & Engineering Chemistry Research, 2014, 53, 6325-6333.	3.7	22
146	Effect of curing temperatures on the alkali activation of crystalline continuous casting stainless steel slag. Construction and Building Materials, 2014, 71, 308-316.	7.2	45
147	In Situ Observation of the Formation and Interaction Behavior of the Oxide/Oxysulfide Inclusions on a Liquid Iron Surface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 903-913.	2.1	12
148	Comparison of electric arc furnace dust treatment technologies using exergy efficiency. Journal of Cleaner Production, 2014, 65, 152-167.	9.3	87
149	Effect of accelerated carbonation on AOD stainless steel slag for its valorisation as a CO ₂ -sequestering construction material. Chemical Engineering Journal, 2014, 246, 39-52.	12.7	121
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