Annelies Malfliet

List of Publications by Year
in descending order

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44	739	623734	552781
papers	citations	14 h-index	26 g-index

49	49	49	551
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Degradation mechanisms and use of refractory linings in copper production processes: A critical review. Journal of the European Ceramic Society, 2014, 34, 849-876.	5.7	118
2	Rare Earth Element Phases in Bauxite Residue. Minerals (Basel, Switzerland), 2018, 8, 77.	2.0	58
3	Identification of magnesiaâ€“chromite refractory degradation mechanisms of secondary copper smelter linings. Journal of the European Ceramic Society, 2016, 36, 2119-2132.	5.7	45
4	Inorganic polymers made of fayalite slag: On the microstructure and behavior of Fe. Journal of the American Ceramic Society, 2018, 101, 2245-2257.	3.8	43
5	Degradation mechanisms of alumina-chromia refractories for secondary copper smelter linings. Corrosion Science, 2018, 136, 409-417.	6.6	41
6	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
7	Electrochemical Extraction of Rare Earth Metals in Molten Fluorides: Conversion of Rare Earth Oxides into Rare Earth Fluorides Using Fluoride Additives. Journal of Sustainable Metallurgy, 2017, 3, 627-637.	2.3	38
8	Effect of Alumina Morphology on the Clustering of Alumina Inclusions in Molten Iron. ISIJ International, 2016, 56, 926-935.	1.4	34
9	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
10	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
11	Influence of FeO/SiO₂ and CaO/SiO₂ Ratios in Ironâ€Saturated ZnOâ€Rich Fayalite Slags on the Corrosion of MgO. Journal of the American Ceramic Society, 2016, 99, 3754-3760.	3.8	20
12	The influence of slag compositional changes on the chemical degradation of magnesia-chromite refractories exposed to PbO-based non-ferrous slag saturated in spinel. Journal of the European Ceramic Society, 2015, 35, 347-355.	5.7	19
13	Stabilisation and Microstructural Modification of Stainless Steel Converter Slag by Addition of an Alumina Rich By-Product. Waste and Biomass Valorization, 2014, 5, 343-353.	3.4	16
14	Phase Relations of the CaO-SiO2-Nd2O3 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
15	HDDR treatment of Ce-substituted Nd2Fe14B-based permanent magnetÂalloys - phase structure evolution, intergranular processes and magnetic property development. Journal of Alloys and Compounds, 2020, 814, 152215.	5.5	15
16	A Study of the Occurrence of Selected Rare-Earth Elements in Neutralizedâ€“Leached Bauxite Residue and Comparison with Untreated Bauxite Residue. Journal of Sustainable Metallurgy, 2019, 5, 57-68.	2.3	14
17	Hydraulic Behavior of Mechanically and Chemically Activated Synthetic Merwinite. Journal of the American Ceramic Society, 2014, 97, 3973-3981.	3.8	13
18	Effect of Interfacial Properties on the Characteristics and Clustering of Alumina Inclusions in Molten Iron. ISIJ International, 2015, 55, 1891-1900.	1.4	12

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19	The effect of a temperature gradient on the phase formation inside a magnesiaâ€“chromite refractory in contact with a non-ferrous PbOâ€“SiO2â€“MgO slag. Journal of the European Ceramic Society, 2015, 35, 2933-2942.	5.7	12
20	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
21	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
22	Fe3Nb3N precipitates of the Fe3W3C type in Nb stabilized ferritic stainless steel. Journal of Alloys and Compounds, 2011, 509, 9583-9588.	5.5	8
23	Aluminum Deoxidation Equilibrium of Fe-Ni Alloy at 1773ÂK and 1873ÂK. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2389-2399.	2.1	8
24	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
25	Characterization of antimony-containing metallurgical residues for antimony recovery. Journal of Cleaner Production, 2021, 327, 129491.	9.3	7
26	Thermodynamic assessment of the Nd2O3-CaO-SiO2 ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 55, 157-164.	1.6	6
27	Influence of Al2O3 Level in CaO-SiO2-MgO-Al2O3 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
28	Precipitation in Nb-Stabilized Ferritic Stainless Steel Investigated with in-situ and ex-situ Transmission Electron Microscopy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3333-3343.	2.2	5
29	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
30	Slag Valorisation as a Contribution to Zero-Waste Metallurgy. Journal of Sustainable Metallurgy, 2016, 2, 1-2.	2.3	5
31	Genesis of As-Pb-Rich Supergene Mineralization: The Tazalaght and Agoujgal Cu Deposits (Moroccan) Tj ETQq1 1 0.784314 rgBT /Ove	3.8	5
32	Capillary Interaction Between Micron-Sized Ce2O3 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
33	Role of Interfacial Properties in the Evolution of Non-metallic Inclusions in Liquid Steel. ISIJ International, 2022, 62, 1573-1585.	1.4	5
34	Precipitation in Feâ€“15Crâ€“1Nb alloys after oxygenation. Acta Materialia, 2010, 58, 3832-3841.	7.9	4
35	Effect of Impurity Te on the Morphology of Alumina Particles in Molten Iron. ISIJ International, 2016, 56, 1529-1536.	1.4	4
36	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

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37	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
38	Preface to the 5th International Slag Valorisation Symposium: From Fundamentals to Applications. Journal of Sustainable Metallurgy, 2018, 4, 1-2.	2.3	3
39	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
40	Effect of Reduction Parameters on the Size and Morphology of the Metallic Particles in Carbothermally Reduced Stainless Steel Dust. Journal of Sustainable Metallurgy, 0, , 1.	2.3	2
41	(Fe, Cr)₆Nb₆O_x phase of the filled Ti₂Ni type with Ã— Â± 0.75 in the quaternary Crâ€“Feâ€“Nbâ€“O system. International Journal of Materials Research, 2011, 102, 109-116.	0.3	1
42	Mg-O-Si Chemical Bond Formation in Light Burned Magnesia and Fumed Silica Mixture During Mechanical Activation. InterCeram: International Ceramic Review, 2015, 64, 90-93.	0.2	1
43	A First-Principles Tool to Discover New Pyrometallurgical Refining Options. Jom, 2021, 73, 2900-2910.	1.9	1
44	Capillary Interaction Between Arbitrarily-Shaped Inclusions at the Gas/Steel Interface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 0, , 1.	2.1	1