

Bart Blanpain

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.

316 papers	9,542 citations	44 h-index	88 g-index
322 ext. papers	10,839 ext. citations	3.7 avg, IF	6.24 L-index

#	Paper	IF	Citations
316	Contact Line Undulation Induced Capillary Interaction Between Micron-Sized Ce ₂ O ₃ Inclusions at the Ar Gas/Liquid Steel Interface. <i>Minerals, Metals and Materials Series</i> , 2022 , 197-207	0.3	
315	Zn Fuming Kinetics in a Bubble-Stirred Molten Slag Bath. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 1308	2.5	0
314	Correlating the amorphous phase structure of vitrified bauxite residue (red mud) to the initial reactivity in binder systems. <i>Cement and Concrete Composites</i> , 2022 , 127, 104410	8.6	3
313	Investigation of Bath/Freeze Lining Interface Temperature Based on the Rheology of the Slag. <i>Jom</i> , 2022 , 74, 274	2.1	1
312	Selective removal of arsenic from crude antimony trioxide by leaching with nitric acid. <i>Separation and Purification Technology</i> , 2022 , 281, 119976	8.3	3
311	Growth mechanism of Al-Ti-O inclusions in steelmaking process. <i>Metallurgical Research and Technology</i> , 2022 , 119, 209	0.9	1
310	Understanding the relationship between slag crystallization behaviour and electrical conductivity under isothermal conditions for online slag solidification monitoring in slag recycling. <i>Resources, Conservation and Recycling</i> , 2022 , 182, 106319	11.9	0
309	H ₂ -Based Processes for Fe and Al Recovery from Bauxite Residue (Red Mud): Comparing the Options. <i>Materials Proceedings</i> , 2021 , 5, 45	0.3	0
308	Characterization of antimony-containing metallurgical residues for antimony recovery. <i>Journal of Cleaner Production</i> , 2021 , 327, 129491	10.3	3
307	Kinetic Aspects of Aluminum Oxide Dissolution in Molten BOF Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 1614-1625	2.5	0
306	Determination of the Fe ₃ +/(\sum)Fe Ratio in Synthetic Lead Silicate Slags Using X-Band CW-EPR. <i>Journal of Sustainable Metallurgy</i> , 2021 , 7, 519-536	2.7	1
305	On the CO Desorption and Absorption in Liquid Low-carbon Steel. <i>ISIJ International</i> , 2021 , 61, 1357-1362	1.7	3
304	Thermodynamic Analysis of Copper Smelting, Considering the Impact of Minor Elements Behavior on Slag Application Options and Cu Recovery. <i>Journal of Sustainable Metallurgy</i> , 2021 , 7, 664-683	2.7	3
303	In Situ Electrical Conductivity Measurement by Using Confocal Scanning Laser Microscopy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2563	2.5	2
302	CO Desorption and Absorption in Molten Steel: A Review. <i>ISIJ International</i> , 2021 , 61, 1337-1347	1.7	1
301	A First-Principles Tool to Discover New Pyrometallurgical Refining Options. <i>Jom</i> , 2021 , 73, 2900-2910	2.1	0
300	Mathematical Methodology and Metallurgical Application of Turbulence Modelling: A Review. <i>Metals</i> , 2021 , 11, 1297	2.3	2

299	Inertial Force on Floating Inclusion Particles at the Interface of Liquid Steel and Inert Gas. <i>ISIJ International</i> , 2021 , 61, 2400-2409	1.7	3
298	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	3.9	6
297	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	2.5	0
296	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	3.1	2
295	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	2.7	5
294	Investigations on Crystallization Processes of Three Oxidic Gasifier Slag Systems. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	4
293	A Dynamic Model of a Submerged Plasma Slag Fuming Process. <i>Minerals, Metals and Materials Series</i> , 2020 , 237-245	0.3	3
292	Selective Roasting of NdBe-B Permanent Magnets as a Pretreatment Step for Intensified Leaching with an Ionic Liquid. <i>Journal of Sustainable Metallurgy</i> , 2020 , 6, 91-102	2.7	9
291	An integrated process for iron recovery and binder production from bauxite residue (red mud). <i>Materials Letters</i> , 2020 , 264, 127273	3.3	1
290	Modelling of gas injection into a viscous liquid through a top-submerged lance. <i>Chemical Engineering Science</i> , 2020 , 212, 115359	4.4	8
289	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	5.1	2
288	Chlorine Addition to Existing Zinc Fuming Processes: A Thermodynamic Study. <i>Journal of Sustainable Metallurgy</i> , 2019 , 5, 538-550	2.7	1
287	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	4.4	2
286	Experimental Study on the Viscosity of Stainless Steelmaking Slags. <i>ISIJ International</i> , 2019 , 59, 404-411	1.7	6
285	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	10.3	25
284	Influence of Al ₂ O ₃ Level in CaO-SiO ₂ -MgO-Al ₂ O ₃ Refining Slags on Slag/Magnesia-Doloma Refractory Interactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 1822-1829	2.5	3
283	Dissolution Behavior and Phase Evolution During Aluminum Oxide Dissolution in BOF Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 1782-1790	2.5	3
282	Experimental and Mathematical Simulation Study on the Granulation of a Modified Basic Oxygen Furnace Steel Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 1260-1268	2.5	2

281	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	2.5	2
280	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	3.9	10
279	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,	4	18
278	Recovery of Rare Earths from Bauxite Residue (Red Mud). <i>World Scientific Series in Current Energy Issues</i> , 2019 , 343-356	0.2	2
277	Effect of Al ₂ O ₃ Addition on Mineralogical Modification and Crystallization Kinetics of a High Basicity BOF Steel Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 271-281	2.5	5
276	Modifications of basic-oxygen-furnace slag microstructure and their effect on the rheology and the strength of alkali-activated binders. <i>Cement and Concrete Composites</i> , 2019 , 97, 143-153	8.6	10
275	Optimization of Mineralogy and Microstructure of Solidified Basic Oxygen Furnace Slag Through SiO ₂ Addition or Atmosphere Control During Hot-Stage Slag Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 210-218	2.5	3
274	Evaluating the material resource efficiency of secondary aluminium production: A Monte Carlo-based decision-support tool. <i>Journal of Cleaner Production</i> , 2019 , 215, 488-496	10.3	9
273	Densification mechanism of porous alumina plugs by molten steel with different oxygen levels. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2662-2670	6	11
272	Assessment of Gas-Slag-Metal Interaction During a Converter Steelmaking Process. <i>Minerals, Metals and Materials Series</i> , 2018 , 353-364	0.3	0
271	Quantitative Study on Dissolution Behavior of NdO in Fluoride Melts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1380-1388	3.9	11
270	Non-Newtonian behavior of solid-bearing silicate melts: An experimental study. <i>Journal of Non-Crystalline Solids</i> , 2018 , 493, 65-72	3.9	10
269	Modes of occurrences of scandium in Greek bauxite and bauxite residue. <i>Minerals Engineering</i> , 2018 , 123, 35-48	4.9	57
268	Degradation mechanisms of alumina-chromia refractories for secondary copper smelter linings. <i>Corrosion Science</i> , 2018 , 136, 409-417	6.8	20
267	Mix-design Parameters and Real-life Considerations in the Pursuit of Lower Environmental Impact Inorganic Polymers. <i>Waste and Biomass Valorization</i> , 2018 , 9, 879-889	3.2	32
266	Rheological Transitions of the Solid-Bearing Slag During Cooling Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2649-2657	2.5	4
265	Molecular structure of CaO-FeOx-SiO ₂ glassy slags and resultant inorganic polymer binders. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5846-5857	3.8	32
264	Aluminum Deoxidation Equilibrium of Fe-Ni Alloy at 1773 K and 1873 K. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2389-2399	2.5	5

263	Rare Earth Element Phases in Bauxite Residue. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 77	2.4	39
262	Theoretical Prediction and Synthesis of (CrZr)AlC i-MAX Phase. <i>Inorganic Chemistry</i> , 2018 , 57, 6237-6244	5.1	33
261	Numerical Modeling of Liquid-Liquid Mass Transfer and the Influence of Mixing in Gas-Stirred Ladles. <i>Jom</i> , 2018 , 70, 2109-2118	2.1	17
260	Hydrodynamics study of bubbly flow in a top-submerged lance vessel. <i>Chemical Engineering Science</i> , 2018 , 192, 1091-1104	4.4	14
259	Viscosity of Heterogeneous Silicate Melts: A Review. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2469-2486	2.5	19
258	Quantification of uncertainty in thermodynamic predictions for vacuum refining of liquid Ag-Pb and Au-Pb binary alloys. <i>Vacuum</i> , 2018 , 155, 398-402	3.7	
257	In-situ Observation of the Precipitation Behavior of a Dy ₂ O ₃ Containing Slag System. <i>Minerals, Metals and Materials Series</i> , 2018 , 323-328	0.3	
256	Effect of Crystallization on the Abrupt Viscosity Increase during the Slag Cooling Process. <i>ISIJ International</i> , 2018 , 58, 1972-1978	1.7	13
255	Recovery of Rare Earths and Major Metals from Bauxite Residue (Red Mud) by Alkali Roasting, Smelting, and Leaching. <i>Journal of Sustainable Metallurgy</i> , 2017 , 3, 393-404	2.7	46
254	Study of the Effect of Spinel Composition on Metallic Copper Losses in Slags. <i>Journal of Sustainable Metallurgy</i> , 2017 , 3, 416-427	2.7	13
253	Valorization of BOF Steel Slag by Reduction and Phase Modification: Metal Recovery and Slag Valorization. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 1602-1612	2.5	22
252	Transforming Enhanced Landfill Mining Derived Gasification/Vitrification Glass into Low-Carbon Inorganic Polymer Binders and Building Products. <i>Journal of Sustainable Metallurgy</i> , 2017 , 3, 405-415	2.7	22
251	CSLM study on the interaction of Nd ₂ O ₃ with CaCl ₂ and CaF ₂ -LiF molten melts. <i>Journal of Materials Science</i> , 2017 , 52, 1717-1726	4.3	8
250	Investigation of Origin of Attached Cu-Ag Droplets to Solid Particles During High-Temperature Slag/Copper/Spinel Interactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 3058-3073	2.5	9
249	Extraction of neodymium by direct reduction of NdOCl in molten calcium chloride. <i>Electrochimica Acta</i> , 2017 , 257, 465-472	6.7	10
248	Viscosity of Heterogeneous Silicate Melts: Assessment of the Measured Data and Modeling. <i>ISIJ International</i> , 2017 , 57, 1895-1901	1.7	11
247	Investigation of Reactive Origin for Attachment of Cu Droplets to Solid Particles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2459-2468	2.5	5
246	Effect of Surfactant Te on the Formation of MnS Inclusions in Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2447-2458	2.5	17

245	Viscosity of Heterogeneous Silicate Melts: A Non-Newtonian Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 3027-3037	2.5	6
244	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	5.7	4
243	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	0.6	1
242	Characterization of landfilled stainless steel slags in view of metal recovery. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 353-362	4.5	7
241	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	4.9	14
240	Hydrometallurgical recycling of NdFeB magnets: Complete leaching, iron removal and electrolysis. <i>Journal of Rare Earths</i> , 2017 , 35, 574-584	3.7	49
239	Recycling of NdFeB magnets using nitration, calcination and water leaching for REE recovery. <i>Hydrometallurgy</i> , 2017 , 167, 115-123	4	43
238	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	0.3	
237	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. <i>Journal of Sustainable Metallurgy</i> , 2016 , 2, 28-37	2.7	94
236	Ladle metallurgy stainless steel slag as a raw material in Ordinary Portland Cement production: a possibility for industrial symbiosis. <i>Journal of Cleaner Production</i> , 2016 , 112, 872-881	10.3	49
235	Freeze-Lining Formation from Fayalite-Based Slags 2016 , 245-251		
234	Sessile drop evaluation of high temperature copper/spinel and slag/spinel interactions. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2770-2783	3.3	9
233	A Proposal for a 100 % Use of Bauxite Residue Towards Inorganic Polymer Mortar. <i>Journal of Sustainable Metallurgy</i> , 2016 , 2, 394-404	2.7	39
232	Effect of surfactant Te on the behavior of alumina inclusions at advancing solid-liquid interfaces of liquid steel. <i>Acta Materialia</i> , 2016 , 120, 443-452	8.4	5
231	Comparative Analysis of Processes for Recovery of Rare Earths from Bauxite Residue. <i>Jom</i> , 2016 , 68, 2958-2962	2.1	15
230	Composition Modification of ZnO Containing Fayalite Slag from Secondary Source Copper Smelting 2016 , 583-589		1
229	Study of Phase Relations of ZnO-Containing Fayalite Slag Under Fe Saturation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 2820-2829	2.5	3
228	Phase Relations of the CaO-SiO ₂ -Nd ₂ O ₃ System and the Implication for Rare Earths Recycling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1736-1744	2.5	9

227	Crystal structure of apatite type $\text{Ca}_{2.49}\text{Nd}_{7.51}(\text{SiO}_4)_6\text{O}_{1.75}$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 209-11	0.7	2
226	Origin and sedimentation of Cu-droplets sticking to spinel solids in pyrometallurgical slags. <i>Materials Science and Technology</i> , 2016 , 32, 1911-1924	1.5	23
225	Effect of ZnO level in secondary copper smelting slags on slag/magnesia-chromite refractory interactions. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1821-1828	6	17
224	Identification of magnesia-chromite refractory degradation mechanisms of secondary copper smelter linings. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2119-2132	6	31
223	Comparison of the chemical corrosion resistance of magnesia-based refractories by stainless steelmaking slags under vacuum conditions. <i>Ceramics International</i> , 2016 , 42, 743-751	5.1	16
222	Effect of Basicity on Basic Oxygen Furnace (BOF) Slag Solidification Microstructure and Mineralogy 2016 , 1185-1190		3
221	In-Situ Observation of Rare Earth Containing Precipitated Phase Crystallization and Solidification of $\text{CaO-SiO}_2\text{-Nd}_2\text{O}_3$ and $\text{CaO-SiO}_2\text{-Nd}_2\text{O}_3\text{-P}_2\text{O}_5$ Melts 2016 , 221-227		1
220	Rheological Behavior of Fayalite Based Secondary Copper Smelter Slag in Iron Saturation 2016 , 1301-1308		2
219	Viscosity of Partially Crystallized BOF Slag 2016 , 263-269		
218	Fundamental Study of the Rare Earths Recycling Through the Pyrometallurgical Route Phase Relations and Crystallization Behavior of the $\text{CaO-SiO}_2\text{-Nd}_2\text{O}_3$ System 2016 , 95-100		
217	Freeze-Lining Formation from Fayalite-Based Slags 2016 , 245-251		
216	Effect of Alumina Morphology on the Clustering of Alumina Inclusions in Molten Iron. <i>ISIJ International</i> , 2016 , 56, 926-935	1.7	24
215	Effect of Impurity Te on the Morphology of Alumina Particles in Molten Iron. <i>ISIJ International</i> , 2016 , 56, 1529-1536	1.7	2
214	Effect of Basicity on Basic Oxygen Furnace (BOF) Slag Solidification Microstructure and Mineralogy 2016 , 1185-1190		
213	Treatment Of Molten Steel Slag for Cement Application 2016 , 157-164		
212	Recovery of Rare Earth Elements from the Ferrous Fraction of Electronic Waste 2016 , 89-93		2
211	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	13
210	Volume-of-fluid simulations of bubble dynamics in a vertical Hele-Shaw cell. <i>Physics of Fluids</i> , 2016 , 28, 053304	4.4	18

209	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	2.5	11
208	Rheological Behavior of Fayalite Based Secondary Copper Smelter Slag in Iron Saturation 2016 , 1301-1308		
207	Effect of Al ₂ O ₃ and SiO ₂ Addition on the Viscosity of BOF Slag 2016 , 439-446		
206	In-Situ Observation of Rare Earth Containing Precipitated Phase Crystallization and Solidification of CaO-SiO ₂ -Nd ₂ O ₃ and CaO-SiO ₂ -Nd ₂ O ₃ -P ₂ O ₅ Melts 2016 , 219-227		
205	Effect of Al ₂ O ₃ and SiO ₂ Addition on the Viscosity of BOF Slag 2016 , 439-446		3
204	Selective recovery of rare earths from bauxite residue by combination of sulfation, roasting and leaching. <i>Minerals Engineering</i> , 2016 , 92, 151-159	4.9	109
203	Degradation mechanisms of alumina-silica runner refractories by carbon steel during ingot casting process. <i>Ceramics International</i> , 2016 , 42, 10209-10214	5.1	12
202	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	2.5	15
201	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	1.9	3
200	Spinel saturation of a PbO based slag as a method to mitigate the chemical degradation of magnesia-chromite bricks. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 4291-4299	6	1
199	Effects of Structure on the Thermodynamic and Transport Properties of Na ₂ O-CaO-SiO ₂ -FeO-Fe ₂ O ₃ Melts 2016 , 511-518		
198	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. <i>Journal of Sustainable Metallurgy</i> , 2016 , 2, 365-386	2.7	149
197	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. <i>Journal of Cleaner Production</i> , 2015 , 99, 17-38	10.3	349
196	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. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2933-2942	6	9
195	Gas-solid reaction kinetics of ZnFe ₂ O ₄ formation from 907 to 1100 °C. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 4718-22	2.8	4
194	The influence of ZnO in fayalite slag on the degradation of magnesia-chromite refractories during secondary Cu smelting. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2641-2650	6	25
193	Observing Nitrogen Bubbles in Liquid Zinc in a Vertical Hele-Shaw Cell. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 621-634	2.5	2
192	Steel Reoxidation by Gunning Mass and Tundish Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 1242-1251	2.5	14

191	Early Age Microstructural Transformations of an Inorganic Polymer Made of Fayalite Slag. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2269-2277	3.8	35
190	Recycling of NdFeB Magnets Using Sulfation, Selective Roasting, and Water Leaching. <i>Journal of Sustainable Metallurgy</i> , 2015 , 1, 199-215	2.7	81
189	Numerical simulation on magnetic assembled structures of iron-based metallic particles within MMCs by a homogeneous strong magnetic field. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 365501	3	3
188	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	5
187	Low temperature synthesis of forsterite from hydromagnesite and fumed silica mixture. <i>Ceramics International</i> , 2015 , 41, 2234-2239	5.1	29
186	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	6	16
185	Zn Loss into ZnFe ₂ O ₄ in an Open Type Electric Arc Furnace: An In-Process Separation Performance Model. <i>Journal of Sustainable Metallurgy</i> , 2015 , 1, 297-303	2.7	1
184	Alkali Activation of AOD Stainless Steel Slag Under Steam Curing Conditions. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3062-3074	3.8	11
183	Effect of Interfacial Properties on the Characteristics and Clustering of Alumina Inclusions in Molten Iron. <i>ISIJ International</i> , 2015 , 55, 1891-1900	1.7	9
182	Interfacial Reaction and Inclusion Formation at Early Stages of FeMnSi Addition to Liquid Fe. <i>ISIJ International</i> , 2015 , 55, 1661-1668	1.7	4
181	In-situ Investigation on the Reduction of Magnesiochromite with Ferrosilicon between 1373-1573 K. <i>ISIJ International</i> , 2015 , 55, 2289-2296	1.7	2
180	Wetting behaviour of Cu based alloys on spinel substrates in pyrometallurgical context. <i>Materials Science and Technology</i> , 2015 , 31, 1925-1933	1.5	17
179	Formation of the ZnFe ₂ O ₄ phase in an electric arc furnace off-gas treatment system. <i>Journal of Hazardous Materials</i> , 2015 , 287, 180-7	12.8	23
178	Cementitious binders from activated stainless steel refining slag and the effect of alkali solutions. <i>Journal of Hazardous Materials</i> , 2015 , 286, 211-9	12.8	48
177	Inorganic Polymer Cement from Fe-Silicate Glasses: Varying the Activating Solution to Glass Ratio. <i>Waste and Biomass Valorization</i> , 2014 , 5, 411-428	3.2	34
176	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	6	93
175	The effect of phase formation during use on the chemical corrosion of magnesia-chromite refractories in contact with a non-ferrous PbO-Bi ₂ O ₃ based slag. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1599-1610	6	27
174	In Situ Observation on Lime Dissolution in Molten Metallurgical Slags [Kinetic Aspects. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6325-6333	3.9	16

173	Effect of curing temperatures on the alkali activation of crystalline continuous casting stainless steel slag. <i>Construction and Building Materials</i> , 2014 , 71, 308-316	6.7	38
172	In Situ Observation of the Formation and Interaction Behavior of the Oxide/Oxysulfide Inclusions on a Liquid Iron Surface. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 903-913	2.5	11
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18	Electrochemical deposition: a method for the production of artificially structured materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 168, 137-140	5.3	17
17	Frictional Behaviour of Diamond-like carbon and diamond coatings in oscillating sliding. <i>Surface and Coatings Technology</i> , 1993 , 62, 583-588	4.4	15
16	A comparative study of the fretting wear of hard carbon coatings. <i>Thin Solid Films</i> , 1993 , 223, 65-71	2.2	42
15	The effect of Cu on morphological instabilities in thin Al/Pt films. <i>Journal of Materials Research</i> , 1992 , 7, 1093-1095	2.5	
14	R.f. plasma-assisted chemical vapour deposition of diamond-like carbon: physical and mechanical properties. <i>Thin Solid Films</i> , 1992 , 217, 56-61	2.2	90
13	Layered growth of the quasicrystalline decagonal Al ₃ Pd phase in Al/Pd lateral diffusion couples. <i>Physical Review Letters</i> , 1990 , 64, 2671-2674	7.4	7
12	Thermal stability of coevaporated Al-Pt thin films on GaAs substrates. <i>Applied Physics Letters</i> , 1990 , 57, 392-394	3.4	11

11	Kinetic description of the transition from a one-phase to a two-phase growth regime in Al/Pd lateral diffusion couples. <i>Journal of Applied Physics</i> , 1990 , 68, 3259-3267	2.5	9
10	Interaction of Cu with CoSi ₂ with and without TiN _x barrier layers. <i>Applied Physics Letters</i> , 1990 , 57, 1307-1309	3.4	16
9	Simultaneous growth of a crystalline phase and a quasicrystalline phase in lateral Al/Pd diffusion couples. <i>Philosophical Magazine Letters</i> , 1990 , 61, 21-27	1	7
8	Solid-state amorphization in Al-Pt multilayers by low-temperature annealing. <i>Physical Review B</i> , 1989 , 39, 13067-13071	3.3	28
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6	Short wavelength compositionally modulated Ni/Ni ₃ P films prepared by electrodeposition. <i>Journal of Applied Physics</i> , 1986 , 60, 1374-1376	2.5	28
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