List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mn-vacancy birnessite for photo-assisted elimination of formaldehyde at ambient condition. Journal of Colloid and Interface Science, 2022, 618, 229-240.	5.0	13
2	Efficient double-layer sintering of titanomagnetite concentrate. Scientific Reports, 2022, 12, 6355.	1.6	3
3	Enrichment of heavy metals from spent printed circuit boards by microwave pyrolysis. Waste Management, 2022, 145, 112-120.	3.7	4
4	Facile synthesis of zinc ferrite as adsorbent from high‑zinc electric arc furnace dust. Powder Technology, 2022, 405, 117479.	2.1	7
5	Preparation of refractory materials from electric furnace ferronickel slag and blast furnace ferronickel slag: A comparison. Journal of Environmental Chemical Engineering, 2022, 10, 107929.	3.3	8
6	Catalytic role of sodium carbonate in reduction of ferromanganese spinel. Powder Technology, 2021, 377, 20-28.	2.1	8
7	Short-flow preparation of pure MoO3 from CaCO3-added molybdenite concentrate pellet by sublimation with flue gas recirculation. Journal of Cleaner Production, 2021, 284, 124747.	4.6	3
8	Rapid microwave-assisted reduction of ferromanganese spinel with biochar: Correlation between phase transformation and heating mechanism. Journal of Cleaner Production, 2021, 286, 124919.	4.6	12
9	Efficient Preparation of Blast Furnace Burdens from Titanomagnetite Concentrate by Composite Agglomeration Process. Jom, 2021, 73, 326-333.	0.9	13
10	Control of slag formation in the electric furnace smelting of ferronickel for an energy-saving production. Journal of Cleaner Production, 2021, 287, 125082.	4.6	17
11	Partial substitution of anthracite for coke breeze in iron ore sintering. Scientific Reports, 2021, 11, 1540.	1.6	8
12	Recent Progress in Microwave-Assisted Pyrometallurgy at Central South University. Minerals, Metals and Materials Series, 2021, , 25-32.	0.3	0
13	Chromium-promoted preparation of forsterite refractory materials from ferronickel slag by microwave sintering. Ceramics International, 2021, 47, 10809-10818.	2.3	10
14	Co-utilization of ferronickel slag and fly ash cenosphere for production of superior thermal insulation materials. Ceramics International, 2021, 47, 10019-10026.	2.3	20
15	Microwave-intensified treatment of low-zinc EAF dust: A route toward high-grade metallized product with a focus on multiple elements. Powder Technology, 2021, 383, 509-521.	2.1	14
16	Preparation of enstatite-spinel based glass-ceramics by co-utilization of ferronickel slag and coal fly ash. Ceramics International, 2021, 47, 29400-29409.	2.3	18
17	Recovery of platinum-group metals from spent catalysts by microwave smelting. Journal of Cleaner Production, 2021, 318, 128266.	4.6	20
18	Production of glass-ceramics from metallurgical slags. Journal of Cleaner Production, 2021, 317, 128220.	4.6	49

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19	Toward environmentally friendly direct reduced iron production: A novel route of comprehensive utilization of blast furnace dust and electric arc furnace dust. Waste Management, 2021, 135, 389-396.	3.7	16
20	Optimization of the Microwave-Assisted Carbothermical Reduction Process for Metals from Electric Arc Furnace Dust with Biochar. Metals, 2021, 11, 1765.	1.0	2
21	Effective electrodynamical parameters and microwave heating of radially heterogeneous pellets containing EAF dust and biochar. Journal of Physics: Conference Series, 2021, 2015, 012007.	0.3	0
22	Optimization of microwave heating of pellets with radial distribution of EAF dust and biochar. AIP Conference Proceedings, 2021, , .	0.3	0
23	Microwave-assisted self-reduction of EAF dust-biochar composite briquettes for production of direct reduced iron. Powder Technology, 2020, 362, 781-789.	2.1	22
24	Alkali-reinforced hydrothermal synthesis of lathy tobermorite fibers using mixture of coal fly ash and lime. Construction and Building Materials, 2020, 238, 117655.	3.2	41
25	Alumina-enhanced valorization of ferronickel slag into refractory materials under microwave irradiation. Ceramics International, 2020, 46, 6828-6837.	2.3	16
26	Strain engineering of 2D semiconductors and graphene: from strain fields to band-structure tuning and photonic applications. Light: Science and Applications, 2020, 9, 190.	7.7	239
27	Co-Conversion Mechanisms of Boron and Iron Components of Ludwigite Ore during Reductive Soda-Ash Roasting. Metals, 2020, 10, 1514.	1.0	4
28	Headâ€compliant microstrip split ring resonator for nonâ€invasive healing monitoring after craniosynostosisâ€based surgery. Healthcare Technology Letters, 2020, 7, 29-34.	1.9	3
29	Optimal microwave heating of biochar containing iron ore pellets. Journal of Physics: Conference Series, 2020, 1461, 012007.	0.3	1
30	Recovery of chromium from ferronickel slag: A comparison of microwave roasting and conventional roasting strategies. Powder Technology, 2020, 372, 578-584.	2.1	16
31	Fabrication of Boronized Ti6Al4V/HA Composites by Microwave Sintering in Mixed Gases. ACS Omega, 2020, 5, 11629-11636.	1.6	6
32	Effects and mechanisms of ternary solution of NaOH-Na2CO3-Na2SO4 on the recovery of molybdenum from residues containing multiple molybdates. Separation and Purification Technology, 2020, 248, 117059.	3.9	7
33	Coprocessing of Stainless-Steel Pickling Sludge with Laterite Ore via Rotary Kiln-Electric Furnace Route: Enhanced Desulfurization and Metal Recovery. Chemical Engineering Research and Design, 2020, 142, 92-98.	2.7	19
34	Recycling Excessive Alkali from Reductive Soda Ash Roasted Ludwigite Ore: Toward a Zero-Waste Approach. ACS Sustainable Chemistry and Engineering, 2020, 8, 5317-5327.	3.2	18
35	Thermodynamics guided ultrafast and continuous preparation of Mo2C nanocrystals for hydrogen evolution electrocatalysis. Materials and Design, 2020, 193, 108803.	3.3	12
36	Promoting spinel formation and growth for preparation of refractory materials from ferronickel slag. International Journal of Applied Ceramic Technology, 2020, 17, 1701-1712.	1.1	11

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37	Co-volatilizing-water leaching process for efficient utilization of rhenium-bearing molybdenite concentrate. Hydrometallurgy, 2020, 192, 105284.	1.8	9
38	Facile fabrication of boronized Ti6Al4V/HA composites for load-bearing applications. Journal of Alloys and Compounds, 2020, 825, 153102.	2.8	11
39	Cost-Effective and Sustainable Preparation of Porous Mullite-Based Ceramics Combining MoO <sub>3</sub> Recovery from Industrial Calcine. ACS Sustainable Chemistry and Engineering, 2020, 8, 7290-7299.	3.2	15
40	Solvent Extraction of Ni and Co from the Phosphoric Acid Leaching Solution of Laterite Ore by P204 and P507. Metals, 2020, 10, 545.	1.0	14
41	Recovery of Chromium from Ferronickel Slag via Alkaline Roasting Followed by Water Leaching: Effect of Roasting Atmosphere. Minerals, Metals and Materials Series, 2020, , 359-368.	0.3	2
42	Self-reduction of Core-Shell EAF Dust-Biochar Composite Pellets Under Microwave Irradiation. Minerals, Metals and Materials Series, 2020, , 405-415.	0.3	0
43	Solvent extraction behavior of metal ions and selective separation Sc3+ in phosphoric acid medium using P204. Separation and Purification Technology, 2019, 209, 175-181.	3.9	67
44	From ferronickel slag to value-added refractory materials: A microwave sintering strategy. Resources, Conservation and Recycling, 2019, 149, 521-531.	5.3	31
45	Use of Biochar for Sustainable Ferrous Metallurgy. Jom, 2019, 71, 3931-3940.	0.9	28
46	Recovering Magnesium from Ferronickel Slag by Vacuum Reduction: Thermodynamic Analysis and Experimental Verification. ACS Omega, 2019, 4, 16062-16067.	1.6	12
47	Mechanical performance and in-vitro biological behaviors of boronized Ti6Al4V/HA composites synthesized by microwave sintering. Ceramics International, 2019, 45, 24684-24690.	2.3	16
48	A novel simultaneous oxidizing-volatilizing process for efficient separation of pure MoO3 from structure self-sustained molybdenite concentrate pellets. Powder Technology, 2019, 345, 338-345.	2.1	15
49	Microwave-Assisted Reduction of Electric Arc Furnace Dust with Biochar: An Examination of Transition of Heating Mechanism. ACS Sustainable Chemistry and Engineering, 2019, 7, 9515-9524.	3.2	31
50	Selective recovery of chromium from ferronickel slag via alkaline roasting followed by water leaching. Journal of Hazardous Materials, 2019, 374, 83-91.	6.5	38
51	Microwave-Assisted Solid-State Synthesis of Fluorinated Hydroxyapatite. Minerals, Metals and Materials Series, 2019, , 225-235.	0.3	1
52	Valorization of Ferronickel Slag into Refractory Materials: Effect of Sintering Temperature. Jom, 2019, 71, 1024-1032.	0.9	10
53	Microwave-assisted self-reduction of composite briquettes of zinc ferrite and carbonaceous materials. Powder Technology, 2019, 342, 224-232.	2.1	25
54	Facile Route for Preparing Refractory Materials from Ferronickel Slag with Addition of Magnesia. ACS Sustainable Chemistry and Engineering, 2018, 6, 4880-4889.	3.2	36

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55	Selective leaching of nickel and cobalt from limonitic laterite using phosphoric acid: An alternative for value-added processing of laterite. Journal of Cleaner Production, 2018, 189, 620-626.	4.6	45
56	Extraction of scandium from scandium-rich material derived from bauxite ore residues. Hydrometallurgy, 2018, 176, 62-68.	1.8	53
57	Microwave Synthesis of Co–Ni Ferrite/Graphene Nanocomposite for Microwave Absorption. Minerals, Metals and Materials Series, 2018, , 355-363.	0.3	0
58	Selective Extraction of Rare Earth Elements Over TiO2 From Bauxite Residues After Removal of Their Fe-, Si-, and Al-Bearing Constituents. Jom, 2018, 70, 2869-2876.	0.9	6
59	Combustion behavior of granulated coke breeze in iron ore sintering. Powder Technology, 2018, 340, 131-138.	2.1	19
60	Chromium: A Double-Edged Sword in Preparation of Refractory Materials from Ferronickel Slag. ACS Sustainable Chemistry and Engineering, 2018, 6, 10536-10544.	3.2	26
61	Preparation of high purity MoO3 through volatilization of technical-grade Mo calcine in water vapor atmosphere. International Journal of Refractory Metals and Hard Materials, 2018, 77, 1-7.	1.7	16
62	Upgrading Diasporic Bauxite Ores for Iron and Alumina Enrichment Based on Reductive Roasting. Jom, 2018, 70, 1893-1901.	0.9	10
63	Preparation of core-shell iron ore-biochar composite pellets for microwave reduction. Powder Technology, 2018, 338, 365-375.	2.1	29
64	Achieving ultra-high electromagnetic wave absorption by anchoring Co0.33Ni0.33Mn0.33Fe2O4 nanoparticles on graphene sheets using microwave-assisted polyol method. Ceramics International, 2018, 44, 21015-21026.	2.3	32
65	Preparation of Refractory Materials from Ferronickel Slag. Minerals, Metals and Materials Series, 2018, , 633-642.	0.3	9
66	Dielectric characterization of Indonesian low-rank coal for microwave processing. Fuel Processing Technology, 2017, 156, 171-177.	3.7	58
67	Pyrometallurgical recycling of electric arc furnace dust. Journal of Cleaner Production, 2017, 149, 1079-1100.	4.6	148
68	Reduction of Sn-Bearing Iron Concentrate with Mixed H2/CO Gas for Preparation of Sn-Enriched Direct Reduced Iron. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1486-1493.	1.0	4
69	Characterization of Low-Zinc Electric Arc Furnace Dust. Minerals, Metals and Materials Series, 2017, , 103-109.	0.3	1
70	Enrichment of Sc 2 O 3 and TiO 2 from bauxite ore residues. Journal of Hazardous Materials, 2017, 331, 71-80.	6.5	59
71	Formation mechanism of MnxFe3â^'xO4 by solid-state reaction of MnO2 and Fe2O3 in air atmosphere: Morphologies and properties evolution. Powder Technology, 2017, 313, 201-209.	2.1	49
72	Synthesis, characterization, and catalytic properties of nano-SnO by chemical vapor transport (CVT) process under CO-CO 2 atmosphere. Materials and Design, 2017, 121, 280-287.	3.3	21

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73	Roll-up effect of sulfur dioxide adsorption on zeolites FAU 13X and LTA 5A. Adsorption, 2017, 23, 699-710.	1.4	12
74	Microwave Power Absorption in Materials for Ferrous Metallurgy. Jom, 2017, 69, 178-183.	0.9	10
75	Use of Gases in Pyrometallurgy. Jom, 2017, 69, 968-969.	0.9	2
76	Beneficiation of Aluminum-, Iron-, and Titanium-Bearing Constituents from Diasporic Bauxite Ores. Jom, 2017, 69, 315-322.	0.9	10
77	Fe Alloys: Production and Metallurgical Aspects: Part II. Jom, 2017, 69, 323-324.	0.9	1
78	Water leaching of boron from soda-ash-activated ludwigite ore. Hydrometallurgy, 2017, 167, 101-106.	1.8	25
79	Thermodynamic Analysis and Reduction of MnO2 by Methane–Hydrogen Gas Mixture. Jom, 2017, 69, 1669-1675.	0.9	23
80	Pyrometallurgical Recovery of Platinum Group Metals from Spent Catalysts. Jom, 2017, 69, 1553-1562.	0.9	91
81	Field-Intensified Metallurgy. Jom, 2017, 69, 2658-2659.	0.9	1
82	Porous Materials from Thermally Activated Kaolinite: Preparation, Characterization and Application. Materials, 2017, 10, 647.	1.3	12
83	Utilization of the MgO-Rich Residue Originated from Ludwigite Ore: Hydrothermal Synthesis of MHSH Whiskers. Minerals (Basel, Switzerland), 2017, 7, 138.	0.8	3
84	Characterization of Spent Printed Circuit Boards from Computers. Minerals, Metals and Materials Series, 2017, , 507-514.	0.3	0
85	Penetration Depth of Microwave in Tire Rubber. Minerals, Metals and Materials Series, 2017, , 403-410.	0.3	0
86	Microwave-Intensified Reduction of Biochar-Containing Briquettes. Minerals, Metals and Materials Series, 2017, , 31-38.	0.3	0
87	Separation of Rhenium from Lead-Rich Molybdenite Concentrate via Hydrochloric Acid Leaching Followed by Oxidative Roasting. Metals, 2016, 6, 282.	1.0	14
88	Digestion of Alumina from Non-Magnetic Material Obtained from Magnetic Separation of Reduced Iron-Rich Diasporic Bauxite with Sodium Salts. Metals, 2016, 6, 294.	1.0	16
89	Waveguides for long-distance energy transport in microwave heating. Journal of Microwave Power and Electromagnetic Energy, 2016, 50, 153-167.	0.4	1
90	Microwave absorption characteristics of anthracite during pyrolysis. Fuel Processing Technology, 2016, 150, 58-63.	3.7	37

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91	Fe Alloys: Production and Metallurgical Aspects: Part I. Jom, 2016, 68, 2998-2999.	0.9	Ο
92	Slag Metallurgy and Metallurgical Waste Recycling. Jom, 2016, 68, 2313-2315.	0.9	19
93	Phase Evolution and Ni-Fe Granular Growth of Saprolitic Laterite Ore–CaO Mixtures during Reductive Roasting. Jom, 2016, 68, 3015-3021.	0.9	9
94	Metal Smelting and Furnace Tapping. Jom, 2016, 68, 1516-1517.	0.9	2
95	Reductive roasting of nickel laterite ore with sodium sulphate for Fe-Ni production. Part II: Phase transformation and grain growth. Separation Science and Technology, 2016, 51, 1727-1735.	1.3	45
96	Enrichment of Rare Earth and Niobium from a REE-Nb-Fe Associated Ore via Reductive Roasting Followed by Magnetic Separation. Jom, 2016, 68, 567-576.	0.9	16
97	Reductive roasting of nickel laterite ore with sodium sulfate for Fe-Ni production. Part I: Reduction/sulfidation characteristics. Separation Science and Technology, 2016, 51, 1408-1420.	1.3	46
98	Extractive Metallurgy: Efficiency and Eco-friendliness. Jom, 2016, 68, 530-531.	0.9	1
99	Microwave Heating of Waste Tires. , 2016, , 551-557.		Ο
100	Resonances of Microwave Power Absorption in Alumina and Silicon Carbide. , 2016, , 443-449.		0
101	Study on Reduction Disintegration of Sinter from Titanomagnetite Concentrate. , 2015, , 477-484.		Ο
102	Sustainability in Metallurgy. Jom, 2015, 67, 1931-1932.	0.9	2
103	Effect of Basicity on Titanomagnetite Concentrate Sintering. ISIJ International, 2015, 55, 907-909.	0.6	28
104	Distribution Characteristics of Phosphorus in the Metallic Iron during Solid-State Reductive Roasting of Oolitic Hematite Ore. ISIJ International, 2015, 55, 2304-2309.	0.6	19
105	Preparation of BF Burden from Titanomagnetite Concentrate by Composite Agglomeration Process (CAP). ISIJ International, 2015, 55, 1599-1607.	0.6	30
106	Effect of Quaternary Basicity on Melting Behavior and Ferronickel Particles Growth of Saprolitic Laterite Ores in Krupp–Renn Process. ISIJ International, 2015, 55, 1828-1833.	0.6	21
107	Extraction of manganese from iron rich MnO2 ores via selective sulfation roasting with SO2 followed by water leaching. Hydrometallurgy, 2015, 156, 225-231.	1.8	53
108	Evaluation of Sintering Behaviors of Saprolitic Nickeliferous Laterite Based on Quaternary Basicity. Jom, 2015, 67, 1966-1974.	0.9	8

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109	Lead and Zinc Metallurgy. Jom, 2015, 67, 1986-1987.	0.9	13
110	Modeling, Simulation, and Developments of Metallurgical Processes. Jom, 2015, 67, 425-426.	0.9	1
111	Atmospheric leaching characteristics of nickel and iron in limonitic laterite with sulfuric acid in the presence of sodium sulfite. Minerals Engineering, 2015, 78, 38-44.	1.8	44
112	Metallurgy: Energy and Environmental Issues. Jom, 2015, 67, 1064-1065.	0.9	1
113	Rapid prototyping-assisted maxillofacial reconstruction. Annals of Medicine, 2015, 47, 186-208.	1.5	33
114	Electromagnetic characteristics of low-permittivity ceramics as substrates for mushroom-like high impedance surfaces. Ceramics International, 2015, 41, 3058-3063.	2.3	5
115	Recovery of Silver and Gold from Copper Anode Slimes. Jom, 2015, 67, 493-502.	0.9	35
116	Microwave-assisted metallurgy. International Materials Reviews, 2015, 60, 30-63.	9.4	164
117	Microwave Power Absorption Characteristics of Iron Oxides. , 2015, , 299-305.		1
118	Maximum Sample Volume for Permittivity Measurements by Cavity Perturbation Technique. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 450-455.	2.4	35
119	Absorption characteristics of single-layer ceramics under oblique incident microwave irradiation. Ceramics International, 2014, 40, 16563-16568.	2.3	14
120	New Developments in Pyrometallurgy. Jom, 2013, 65, 1550-1551.	0.9	2
121	Microwave Power Absorption Characteristics of Ferrites. IEEE Transactions on Magnetics, 2013, 49, 1163-1166.	1.2	41
122	Design of double-layer ceramic absorbers for microwave heating. Ceramics International, 2013, 39, 6721-6725.	2.3	40
123	Absorber Impedance Matching in Microwave Heating. Applied Physics Express, 2012, 5, 077301.	1.1	31
124	Magnetic Loss in Microwave Heating. Applied Physics Express, 2012, 5, 027304.	1.1	33
125	Microwave Absorption Capability of High Volatile Bituminous Coal during Pyrolysis. Energy & Fuels, 2012, 26, 5146-5151.	2.5	81
126	Microwave Permittivity, Permeability, and Absorption Capability of Ferric Oxide. ISIJ International, 2012, 52, 1535-1538.	0.6	39

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127	Numerical Analysis of Heat Transfer Characteristics in Microwave Heating of Magnetic Dielectrics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1070-1078.	1.1	35
128	Numerical Simulation of Heat Transfer during Microwave Heating of Magnetite. ISIJ International, 2011, 51, 884-888.	0.6	29
129	Leaching of limonitic laterite ore by acidic thiosulfate solution. Minerals Engineering, 2011, 24, 859-863.	1.8	55
130	Microwave Absorption Characteristics of Conventionally Heated Nonstoichiometric Ferrous Oxide. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2259-2263.	1.1	55
131	Microwave Penetration Depth in Materials with Non-zero Magnetic Susceptibility. ISIJ International, 2010, 50, 1590-1596.	0.6	135
132	Characterization of Nickel Oxide Nanoparticles for Hydrogen Adsorption with External Electric Field. , 0, , 285-291.		0
133	Efficient Utilization of Carbon-Bearing Dusts in Composite Agglomeration Process for Iron Ore Sintering. Journal of Sustainable Metallurgy, 0, , .	1.1	2