List of Publications by Year in descending order

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| 109      | 1,921          | 257450<br><b>24</b> | 330143<br><b>37</b> |
|----------|----------------|---------------------|---------------------|
| papers   | citations      | h-index             | g-index             |
|          |                |                     |                     |
| 121      | 121            | 121                 | 909                 |
| all docs | docs citations | times ranked        | citing authors      |
|          |                |                     |                     |

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Reduction Behavior of Panzhihua Titanomagnetite Concentrates with Coal. Metallurgical and<br>Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 252-260.  | 2.1  | 130       |
| 2  | Carbothermic Reduction of Vanadium Titanomagnetite by Microwave Irradiation and Smelting<br>Behavior. ISIJ International, 2013, 53, 1115-1119.  | 1.4  | 80        |
| 3  | Multistage utilization process for the gradient-recovery of V, Fe, and Ti from vanadium-bearing converter slag. Journal of Hazardous Materials, 2017, 336, 1-7.   | 12.4 | 75        |
| 4  | A novel recycling approach for efficient extraction of titanium from high-titanium-bearing blast<br>furnace slag. Waste Management, 2021, 120, 626-634.   | 7.4  | 64        |
| 5  | Behavior of Liquid Phase Formation during Iron Ores Sintering. ISIJ International, 2011, 51, 722-727.   | 1.4  | 63        |
| 6  | Effect of Cr <sub>2</sub> O <sub>3</sub> Addition on Viscosity and Structure of<br>Ti-bearing Blast Furnace Slag. ISIJ International, 2015, 55, 1367-1376.  | 1.4  | 60        |
| 7  | Removal of Impurity Elements from Molten Aluminum: A Review. Mineral Processing and Extractive<br>Metallurgy Review, 2011, 32, 150-228.   | 5.0  | 58        |
| 8  | Carbothermic Reduction of Titanomagnetite Concentrates with Ferrosilicon Addition. ISIJ<br>International, 2013, 53, 557-563.  | 1.4  | 49        |
| 9  | Novel Process of Ferronickel Nugget Production from Nickel Laterite by Semi-molten State Reduction.<br>ISIJ International, 2014, 54, 1749-1754.   | 1.4  | 47        |
| 10 | Mineral Change of Philippine and Indonesia Nickel Lateritic Ore during Sintering and Mineralogy of<br>Their Sinter. ISIJ International, 2010, 50, 380-385.  | 1.4  | 44        |
| 11 | Effect of TiO2 Content on the Structure of CaO–SiO2–TiO2 System by Molecular Dynamics Simulation.<br>ISIJ International, 2013, 53, 1131-1137.   | 1.4  | 41        |
| 12 | Transition of Blast Furnace Slag from Silicates-Based to Aluminates-Based: Viscosity. Metallurgical<br>and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48,<br>1092-1099.   | 2.1  | 39        |
| 13 | Enhancement Reduction of Panzhihua Ilmenite Concentrate with Coke and Conglomeration of Metal with Ferrosilicon. Steel Research International, 2013, 84, 892-899.   | 1.8  | 36        |
| 14 | Transition of Blast Furnace Slag from Silicate-Based to Aluminate-Based: Structure Evolution by<br>Molecular Dynamics Simulation and Raman Spectroscopy. Metallurgical and Materials Transactions B:<br>Process Metallurgy and Materials Processing Science, 2017, 48, 573-581. | 2.1  | 36        |
| 15 | Surface Tension of the Molten Blast Furnace Slag Bearing TiO2: Measurement and Evaluation. ISIJ<br>International, 2014, 54, 2154-2161.  | 1.4  | 35        |
| 16 | Dephosphorization of Iron Ore Bearing High Phosphorous by Carbothermic Reduction Assisted with<br>Microwave and Magnetic Separation. ISIJ International, 2012, 52, 1579-1584.   | 1.4  | 34        |
| 17 | Enhanced Reduction of Coalâ€Containing Titanomagnetite Concentrates Briquette with Multiple Layers<br>in Rotary Hearth Furnace. Steel Research International, 2016, 87, 494-500.  | 1.8  | 34        |
| 18 | Effect of Mechanical Activation Treatment on the Recovery of Vanadium from Converter Slag.<br>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science,<br>2017, 48, 2759-2767.  | 2.1  | 34        |

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|----|--|------|-----------|
| 19 | Effect of basicity on the crystallization behavior of TiO <sub>2</sub> –CaO–SiO <sub>2</sub> ternary system slag. CrystEngComm, 2018, 20, 5422-5431.   | 2.6  | 33        |
| 20 | Recovery of tailings from the vanadium extraction process by carbothermic reduction method:<br>Thermodynamic, experimental and hazardous potential assessment. Journal of Hazardous Materials,<br>2018, 357, 128-137.  | 12.4 | 32        |
| 21 | Crystallization Behavior of Perovskite in the Synthesized High-Titanium-Bearing Blast Furnace Slag<br>Using Confocal Scanning Laser Microscope. Metallurgical and Materials Transactions B: Process<br>Metallurgy and Materials Processing Science, 2014, 45, 76-85. | 2.1  | 31        |
| 22 | Effect of TiO <sub>2</sub> on the Liquid Zone and Apparent Viscosity of<br>SiO <sub>2</sub> -CaO-8wt%MgO-14wt%Al <sub>2</sub> O <sub>3</sub><br>System. ISIJ International, 2017, 57, 31-36.   | 1.4  | 31        |
| 23 | Effect of Surface Properties of Iron Ores on their Granulation Behavior. ISIJ International, 2013, 53, 1491-1496.  | 1.4  | 27        |
| 24 | Waste Heat Recovery from Blast Furnace Slag by Chemical Reactions. Jom, 2012, 64, 997-1001.  | 1.9  | 26        |
| 25 | Viscosity of TiO2-FeO-Ti2O3-SiO2-MgO-CaO-Al2O3 for High-Titania Slag Smelting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1963-1973.   | 2.1  | 26        |
| 26 | Segregation and Morphological Evolution of Si Phase during Electromagnetic Directional Solidification of Hypereutectic Al-Si Alloys. Materials, 2019, 12, 10.  | 2.9  | 25        |
| 27 | Effect of Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> Addition on<br>Carbothermic Reduction of Ilmenite Concentrate. ISIJ International, 2016, 56, 2140-2146.  | 1.4  | 24        |
| 28 | Transition of Blast Furnace Slag from Silicate Based to Aluminate Based: Density and Surface Tension.<br>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science,<br>2018, 49, 1322-1330.                                    | 2.1  | 23        |
| 29 | Desulphurisation ability of blast furnace slag containing high Al <sub>2</sub> O <sub>3</sub> and 5<br>mass% TiO <sub>2</sub> at 1773 K. Ironmaking and Steelmaking, 2016, 43, 378-384.  | 2.1  | 22        |
| 30 | Influence of CaO Source on the Formation Behavior of Calcium Ferrite in Solid State. ISIJ<br>International, 2013, 53, 1571-1579.   | 1.4  | 21        |
| 31 | Dry Granulation of Molten Slag using a Rotating Multiâ€Nozzle Cup Atomizer and Characterization of<br>Slag Particles. Steel Research International, 2013, 84, 852-862.   | 1.8  | 19        |
| 32 | lsothermal Reduction Kinetics of Powdered Hematite and Calcium Ferrite with<br>CO–N <sub>2</sub> Gas Mixtures. ISIJ International, 2016, 56, 2118-2125.  | 1.4  | 19        |
| 33 | Effect of ultrasonic vibration treatment on solid-state reactions between Fe2O3 and CaO. Ultrasonics Sonochemistry, 2017, 38, 281-288.   | 8.2  | 19        |
| 34 | Effect of Pre‑wetting Treatment on the Granulation Behavior of Iron Ore Fines. ISIJ International, 2014,<br>54, 2721-2727.   | 1.4  | 18        |
| 35 | Mechanism on reduction and nitridation of micrometerâ€sized titania with ammonia gas. Journal of the<br>American Ceramic Society, 2020, 103, 3905-3916.  | 3.8  | 18        |
| 36 | Preparation of High-Grade Titania Slag from Ilmenite-Bearing High Ca and Mg by Vacuum Smelting<br>Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing<br>Science, 2014, 45, 923-928.                                     | 2.1  | 17        |

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|----|---|-----|-----------|
| 37 | Crystallization Kinetics of 2CaO·Fe <sub>2</sub> O <sub>3</sub> and<br>CaO·Fe <sub>2</sub> O <sub>3</sub> in the<br>CaO–Fe <sub>2</sub> O <sub>3</sub> System. ISIJ International, 2016, 56, 1157-1163.                       | 1.4 | 17        |
| 38 | Viscosity of Iron Oxide Aluminosilicate Melts. Metallurgical and Materials Transactions B: Process<br>Metallurgy and Materials Processing Science, 2019, 50, 251-261.   | 2.1 | 17        |
| 39 | Effect of Sodium Sulfate on Preparation of Ferronickel from Nickel Laterite by Carbothermal<br>Reduction. ISIJ International, 2018, 58, 799-807.  | 1.4 | 16        |
| 40 | The Dissolution Kinetics of Al2O3 into Molten CaO-Al2O3-Fe2O3 Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2106-2117.                                     | 2.1 | 15        |
| 41 | Wetting Behavior of Al <sub>2</sub> 0 <sub>3</sub> Substrate by Calcium Ferrite<br>Series Melts. ISIJ International, 2015, 55, 483-490.   | 1.4 | 15        |
| 42 | Preparation of Rutile from Ilmenite Concentrate Through Pressure Leaching with Hydrochloric Acid.<br>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science,<br>2017, 48, 1333-1341. | 2.1 | 15        |
| 43 | Effect of Silica on Reduction of Calcium Ferrite with CO–N <sub>2</sub> Gas Mixtures. ISIJ<br>International, 2017, 57, 634-642.   | 1.4 | 15        |
| 44 | Microstructure and Mechanical Properties of Graphene Oxide-Reinforced Titanium Matrix Composites<br>Synthesized by Hot-Pressed Sintering. Nanoscale Research Letters, 2019, 14, 114.  | 5.7 | 15        |
| 45 | Wetting Behavior of Calcium Ferrite Melts on Sintered MgO. ISIJ International, 2015, 55, 1558-1564.   | 1.4 | 14        |
| 46 | Dissolution Kinetics of SiO2 into CaO-Fe2O3-SiO2 Slag. Metallurgical and Materials Transactions B:<br>Process Metallurgy and Materials Processing Science, 2016, 47, 2063-2071.   | 2.1 | 13        |
| 47 | Reduction of CaO–Fe <sub>2</sub> O <sub>3</sub> Series Compounds by CO. ISIJ<br>International, 2017, 57, 1181-1190.   | 1.4 | 13        |
| 48 | Co-recovery of iron, chromium, and vanadium from vanadium tailings by semi-molten<br>reduction–magnetic separation process. Canadian Metallurgical Quarterly, 2018, 57, 262-273.  | 1.2 | 13        |
| 49 | Relationship between Texture Features and Mineralogy Phases in Iron Ore Sinter Based on Gray-level<br>Co-occurrence Matrix. ISIJ International, 2009, 49, 709-718.  | 1.4 | 12        |
| 50 | Density of the Blast Furnace Slag Bearing TiO2 at 1673 K. ISIJ International, 2014, 54, 2017-2024.  | 1.4 | 12        |
| 51 | Viscosity evaluation of Fe–Ni–Co ternary alloy from the measured binary systems. Journal of<br>Industrial and Engineering Chemistry, 2015, 30, 106-111.   | 5.8 | 12        |
| 52 | Direct Electro-deoxidation of Ilmenite Concentrate to Prepare FeTi Alloy in CaCl <sub>2</sub> Molten<br>Salt. High Temperature Materials and Processes, 2014, 33, 377-383.  | 1.4 | 11        |
| 53 | The Dissolution Kinetics of MgO into CaO-MgO-Fe2O3 Slag. Metallurgical and Materials Transactions<br>B: Process Metallurgy and Materials Processing Science, 2017, 48, 733-742.   | 2.1 | 11        |
| 54 | A Novel Method of Smelting a Mixture of Two Types of Laterite Ore to Prepare Ferronickel. Jom, 2019, 71, 4191-4197.   | 1.9 | 11        |

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|----|--|-----|-----------|
| 55 | Drying Kinetics of a Philippine Nickel Laterite Ore by Microwave Heating. Mineral Processing and Extractive Metallurgy Review, 2021, 42, 46-52.  | 5.0 | 11        |
| 56 | Interpretation on Iron Ore Granulation Process Based on Particle-size Analysis. ISIJ International, 2016, 56, 1964-1972.   | 1.4 | 10        |
| 57 | Transition of Blast Furnace Slag from Silicate Based to Aluminate Based: Sulfide Capacity.<br>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science,<br>2017, 48, 2607-2614. | 2.1 | 10        |
| 58 | Drying kinetics of Philippine nickel laterite by microwave heating. Drying Technology, 2018, 36, 849-858.  | 3.1 | 10        |
| 59 | The Effect of Titanium Carbonitride on the Viscosity of High-Titanium-Type Blast Furnace Slag. Metals, 2019, 9, 395.   | 2.3 | 10        |
| 60 | Slag-foaming phenomenon originating from reaction of titanium-bearing blast furnace slag: effects of<br>TiO2 content and basicity. Canadian Metallurgical Quarterly, 2020, 59, 151-158.                                | 1.2 | 10        |
| 61 | Effect of Preformed Calcium Ferrite Addition on Sintering Behavior of Vanadium Titanium Magnetite<br>Ore. Jom, 2021, 73, 316-325.  | 1.9 | 10        |
| 62 | Modeling Viscosity of High Titania Slag. Metallurgical and Materials Transactions B: Process<br>Metallurgy and Materials Processing Science, 2021, 52, 245-254.  | 2.1 | 10        |
| 63 | Tuning the Electronic Structure of the CoP/Ni <sub>2</sub> P Nanostructure by Nitrogen Doping for<br>an Efficient Hydrogen Evolution Reaction in Alkaline Media. Inorganic Chemistry, 2021, 60, 18544-18552.           | 4.0 | 10        |
| 64 | Indication of the Measurement of Surface Area on Iron Ore Granulation. ISIJ International, 2011, 51, 1432-1438.  | 1.4 | 9         |
| 65 | Numerical Simulation of Particle Mixing Behavior in High Speed Shear Mixer and Cylinder Mixer. ISIJ<br>International, 2021, 61, 2059-2065.   | 1.4 | 9         |
| 66 | Relationship between Mineragraphy Features of Sinter Ore and Its Gray Histogram. ISIJ International, 2008, 48, 186-193.  | 1.4 | 8         |
| 67 | Mechanochemical Effects on the Roasting Behavior of Vanadium-bearing LD Converter Slag in the Air.<br>ISIJ International, 2017, 57, 970-977.   | 1.4 | 8         |
| 68 | Evaluation Model for Viscosity of Fe–Ni–Cr Alloys Using Gibbs Free Energy of Mixing and Geometric<br>Methods. ISIJ International, 2017, 57, 1296-1302.   | 1.4 | 8         |
| 69 | Wetting Behavior of TiO2 by Calcium Ferrite Slag at 1523ÂK. Metallurgical and Materials Transactions B:<br>Process Metallurgy and Materials Processing Science, 2018, 49, 2667-2680.                                   | 2.1 | 8         |
| 70 | Reduction and Nitridation of Iron/Vanadium Oxides by Ammonia Gas: Mechanism and Preparation of FeV45N Alloy. Metals, 2020, 10, 356.  | 2.3 | 8         |
| 71 | A Novel Method for Quantifying the Composition of Mineralogical Phase in Iron Ore Sinter. ISIJ<br>International, 2009, 49, 703-708.  | 1.4 | 7         |
| 72 | Structure-based viscosity model development for titania aluminosilicate slags. Ironmaking and Steelmaking, 2020, 47, 203-209.  | 2.1 | 7         |

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| 73 | Mathematical Modeling on the Removal of Impurity Elements from Molten Aluminum. Mineral<br>Processing and Extractive Metallurgy Review, 2012, 33, 1-54.   | 5.0 | 6         |
| 74 | Effect of Al on the Wetting Behavior Between TiC x and Molten Ti-Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4783-4792.   | 2.2 | 6         |
| 75 | Non-isothermal crystallization kinetics for CaO–Fe2O3 system. Journal of Thermal Analysis and<br>Calorimetry, 2016, 124, 509-518.   | 3.6 | 6         |
| 76 | Preparation of Mo2C by reduction and carbonization of MoO2 with CH3OH. Journal of Materials Science, 2018, 53, 10059-10070.   | 3.7 | 6         |
| 77 | The wettability and interfacial characterization between Î <sup>3</sup> -TiAl alloy and ceramic reinforcements.<br>Composite Interfaces, 2018, 25, 713-723.   | 2.3 | 6         |
| 78 | Mineralogical characterisation and magnetic separation of vanadium-bearing converter slag. Waste<br>Management and Research, 2018, 36, 1083-1091.   | 3.9 | 6         |
| 79 | Generation of titania-rich slag and iron from ilmenite concentrate by carbothermic reduction and magnetic separation in the presence of Na2CO3. Canadian Metallurgical Quarterly, 2020, 59, 393-404.  | 1.2 | 6         |
| 80 | Improving the property of calcium ferrite using a sonochemical method. Ultrasonics Sonochemistry, 2018, 43, 110-113.  | 8.2 | 5         |
| 81 | Wetting Behavior of Calcium Ferrite Slags on Cristobalite Substrates. Metallurgical and Materials<br>Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1331-1345.  | 2.1 | 5         |
| 82 | First-principle study of interfacial properties between Î <sup>3</sup> -TiAl and TiC, VN. Molecular Simulation, 2019, 45,<br>50-57.   | 2.0 | 5         |
| 83 | Novel process for deep removal of chlorine and recycling of chlorinated tailings from<br>titanium-bearing blast-furnace slag. Chemical Engineering Research and Design, 2022, 159, 842-849.   | 5.6 | 5         |
| 84 | Pâ€doped MoS <sub>2</sub> /Ni <sub>2</sub> P/Ti <sub>3</sub> C <sub>2</sub> T <i><sub>x</sub></i> heterostructures for efficient hydrogen evolution reaction in alkaline media. Journal of the<br>American Ceramic Society, 2022, 105, 6096-6104. | 3.8 | 5         |
| 85 | Reduction Behavior of Aluminate Calcium Ferrite (CFA) in COâ€N <sub>2</sub> Atmosphere. Steel<br>Research International, 2018, 89, 1700452.   | 1.8 | 4         |
| 86 | The adhesion, stability, and electronic structure of Î <sup>3</sup> -TiAl/VN interface: a first-principle study. Applied<br>Physics A: Materials Science and Processing, 2018, 124, 1.  | 2.3 | 4         |
| 87 | Influence of Ferrous Sulfide on Carbothermic Reduction of Panzhihua Ilmenite Concentrate. Jom, 2020, 72, 3393-3400.   | 1.9 | 4         |
| 88 | Recovery of Titania Slag and Iron from Semi-molten State Reduced Ilmenite Concentrate: Liberation<br>Characteristics and Magnetic Separation. Journal of Sustainable Metallurgy, 2022, 8, 228-238.  | 2.3 | 4         |
| 89 | A Novel Process for Preparing High-Strength Pellets of Ilmenite Concentrate. Journal of Sustainable<br>Metallurgy, 2022, 8, 551-565.  | 2.3 | 4         |
| 90 | Solidification of Calcium Ferrite Melt Using Ultrasonic Vibration: Effect and Mechanism.<br>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science,<br>2018, 49, 2658-2666.                              | 2.1 | 3         |

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| 91  | The isothermal reduction kinetics of chromium-bearing vanadium–titanium magnetite sinter. Canadian<br>Metallurgical Quarterly, 2019, 58, 177-186.   | 1.2 | 3         |
| 92  | Non-isothermal kinetic studies on the carbothermic reduction of Panzhihua ilmenite concentrate.<br>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and<br>Metallurgy, 2019, 128, 239-247. | 0.2 | 3         |
| 93  | Thermodynamic properties of sodium trititanate (Na 2 Ti 3 O 7 ) at high temperature (298.15â€1403ÂK).<br>Journal of the American Ceramic Society, 2021, 104, 4782-4787.   | 3.8 | 3         |
| 94  | Andradite titanium: Preparation, characterization and metallurgical performance. Journal of the American Ceramic Society, 2022, 105, 2209-2220.   | 3.8 | 3         |
| 95  | Periodic DFT Study on the Adsorption and Deoxygenation Process of NH3 on V2O5 (001) Surface. Jom, 2022, 74, 1870-1877.  | 1.9 | 3         |
| 96  | Nano-sized TiN-reinforced composites: Fabrication, microstructure, and mechanical properties.<br>Journal of Materials Research, 2019, 34, 2582-2589.  | 2.6 | 2         |
| 97  | Dissolution kinetics of calcium vanadates in sulfuric acid: a fundamental study for the vanadium extraction process. Journal of Chemical Technology and Biotechnology, 2020, 95, 1773-1780.                                     | 3.2 | 2         |
| 98  | Effect of CO <sub>2</sub> Gasification on Highâ€Temperature Characteristics of Iron Coke: In Situ<br>Compressive Strength. Steel Research International, 2022, 93, .  | 1.8 | 2         |
| 99  | Double pyrovanadates CaMgV <sub>2</sub> O <sub>7</sub> : Formation mechanism, phase structure, and thermodynamic properties. Journal of the American Ceramic Society, 2022, 105, 6359-6369.                                     | 3.8 | 2         |
| 100 | Effects of operation parameters on particle mixing performance in a horizontal high shear mixer.<br>International Journal of Chemical Reactor Engineering, 2022, 20, 1083-1094.   | 1.1 | 2         |
| 101 | Metallurgical Slag. Crystals, 2022, 12, 407.  | 2.2 | 1         |
| 102 | Phase Equilibrium of the V2O5–Na2O System. Metallurgical and Materials Transactions B: Process<br>Metallurgy and Materials Processing Science, 2022, 53, 2695-2703.   | 2.1 | 1         |
| 103 | Kinetics of the decomposition reaction of phosphorite concentrate. Chemical Industry and Chemical Engineering Quarterly, 2014, 20, 215-221.   | 0.7 | 0         |
| 104 | Comprehensive Research on Basicity and Coal Dosage of Sinter Based on Cost Analysis. , 2015, , 179-186.   |     | 0         |
| 105 | Solidification Behavior of Calcium Ferrite Under Ultrasonic Vibration. Metallurgical and Materials<br>Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3200-3210.                                 | 2.1 | 0         |
| 106 | Characterization on the Roughness of the Iron Ore Particles. , 0, , 123-129.  |     | 0         |
| 107 | Electric Resistivity of Fine Chromite Ore. , 0, , 139-146.  |     | 0         |
| 108 | Homogeneous and well-aligned GaN nanowire arrays via a modified HVPE process and their cathodoluminescence properties. Nanoscale, 2022, , .   | 5.6 | 0         |

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|-----|---|-----|-----------|
| 109 | Characterisation of titania slag produced by a novel process: acidolysis performance. Canadian<br>Metallurgical Quarterly, 0, , 1-10. | 1.2 | 0         |