

# Lassi Klemettinen

## List of Publications by Year in descending order

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39  
papers

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#	ARTICLE	IF	CITATIONS
1	Sulfation Roasting Mechanism for Spent Lithium-Ion Battery Metal Oxides Under SO <sub>2</sub> -O <sub>2</sub> -Ar Atmosphere. <i>Jom</i> , 2019, 71, 4473-4482.	0.9	53
2	Urban mining of precious metals via oxidizing copper smelting. <i>Minerals Engineering</i> , 2019, 133, 95-102.	1.8	34
3	Feasibility study of producing multi-metal parts by Fused Filament Fabrication (FFF) technique. <i>Journal of Manufacturing Processes</i> , 2021, 67, 438-446.	2.8	31
4	Slag Chemistry of High-Alumina Iron Silicate Slags at 1300°C in WEEE Smelting. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 772-781.	1.1	29
5	Thermal Processing of Jarosite Leach Residue for a Safe Disposable Slag and Valuable Metals Recovery. <i>Metals</i> , 2018, 8, 744.	1.0	28
6	Behavior of Tin and Antimony in Secondary Copper Smelting Process. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 39.	0.8	28
7	Recovery of Precious Metals (Au, Ag, Pt, and Pd) from Urban Mining Through Copper Smelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1495-1508.	1.0	28
8	Behavior of Waste Printed Circuit Board (WPCB) Materials in the Copper Matte Smelting Process. <i>Metals</i> , 2018, 8, 887.	1.0	25
9	Behavior of Ga, In, Sn, and Te in Copper Matte Smelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2723-2732.	1.0	24
10	Distribution of Ni, Co, Precious, and Platinum Group Metals in Copper Making Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1752-1765.	1.0	24
11	Precious metal recoveries in secondary copper smelting with high-alumina slags. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 642-655.	1.6	22
12	Equilibrium phase relations of CaO-SiO <sub>2</sub> -TiO <sub>2</sub> system at 1400°C and oxygen partial pressure of 10 <sup>-10</sup> atm. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156472.	2.8	21
13	Precious Metal Distributions in Direct Nickel Matte Smelting with Low-Cu Mattes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 98-112.	1.0	20
14	Experimental Study on the Phase Equilibrium of Copper Matte and Silica-Saturated FeOx-SiO <sub>2</sub> -Based Slags in Pyrometallurgical WEEE Processing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1552-1563.	1.0	18
15	Behavior of Battery Metals Lithium, Cobalt, Manganese and Lanthanum in Black Copper Smelting. <i>Batteries</i> , 2020, 6, 16.	2.1	15
16	Precious Metal Distributions Between Copper Matte and Slag at High P <sub>SO<sub>2</sub></sub> in WEEE Reprocessing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 871-882.	1.0	14
17	Equilibrium of Copper Matte and Silica-Saturated Iron Silicate Slags at 1300°C and P <sub>SO<sub>2</sub></sub> of 0.5 atm. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2107-2118.	1.0	13
18	Leaching of Rare Earth Elements from NdFeB Magnets without Mechanical Pretreatment by Sulfuric (H <sub>2</sub> SO <sub>4</sub> ) and Hydrochloric (HCl) Acids. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1374.	0.8	13

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19	Reaction mechanisms of waste printed circuit board recycling in copper smelting: The impurity elements. <i>Minerals Engineering</i> , 2021, 160, 106709.	1.8	12
20	Handling trace elements in WEEE recycling through copper smelting-an experimental and thermodynamic study. <i>Minerals Engineering</i> , 2021, 173, 107189.	1.8	12
21	Slag Chemistry and Behavior of Nickel and Tin in Black Copper Smelting with Alumina and Magnesia-Containing Slags. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1-14.	1.1	12
22	Slag Cleaning Equilibria in Iron Silicate Slag-Copper Systems. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 463-473.	1.1	11
23	Integrated Battery Scrap Recycling and Nickel Slag Cleaning with Methane Reduction. <i>Minerals (Basel)</i> , 2021, 11, 1078-1116.	0.8	16
24	Recycling of tellurium via copper smelting processes. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	10
25	Critical Metals Ga, Ge and In: Experimental Evidence for Smelter Recovery Improvements. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 367.	0.8	9
26	On the Kinetic Behavior of Recycling Precious Metals (Au, Ag, Pt, and Pd) Through Copper Smelting Process. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 920-931.	1.1	9
27	Battery Scrap and Biochar Utilization for Improved Metal Recoveries in Nickel Slag Cleaning Conditions. <i>Batteries</i> , 2020, 6, 58.	2.1	8
28	Distribution Kinetics of Rare Earth Elements in Copper Smelting. <i>Sustainability</i> , 2020, 12, 208.	1.6	8
29	Worth from Waste: Utilizing a Graphite-Rich Fraction from Spent Lithium-Ion Batteries as Alternative Reductant in Nickel Slag Cleaning. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 784.	0.8	8
30	Recovering Value from End-of-Life Batteries by Integrating Froth Flotation and Pyrometallurgical Copper-Slag Cleaning. <i>Metals</i> , 2022, 12, 15.	1.0	8
31	Behavior of Nickel as a Trace Element and Time-Dependent Formation of Spinel in WEEE Smelting. <i>Minerals, Metals and Materials Series</i> , 2018, , 1073-1082.	0.3	6
32	Control of Platinum Loss in WEEE Smelting. <i>Jom</i> , 2020, 72, 2770-2777.	0.9	6
33	Ni-Fe-Co alloy-magnesia-iron-silicate slag equilibria and the behavior of minor elements Cu and P in nickel slag cleaning. <i>Journal of Materials Research and Technology</i> , 2021, 15, 719-730.	2.6	5
34	Trace element distributions between matte and slag in direct nickel matte smelting. <i>Canadian Metallurgical Quarterly</i> , 2020, 59, 67-77.	0.4	4
35	Iron activity measurements and spinel-slag equilibria in alumina-bearing iron silicate slags. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157539.	2.8	4
36	Experimental phase equilibrium data of the system Cu-Ca-Al <sub>2</sub> O <sub>3</sub> at copper saturation. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016, 55, 199-207.	0.7	3

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37	Properties of Na <sub>2</sub> O-SiO <sub>2</sub> slags in Doré smelting. Mineral Processing and Extractive Metallurgy Review, 2018, 39, 125-135.	2.6	3
38	Distribution of Co, Fe, Ni, and precious metals between blister copper and white metal. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2021, 130, 313-323.	0.1	1
39	Solubility of Palladium in Alumina-Iron Silicate Melts. Jom, 2021, 73, 1871-1877.	0.9	1