IRCSEM

SHIBAYAMA LAB.

[Mineral Processing and Recycling]

Integrated Research Center for Sustainable Energy and Materials

Mineral Processing Engineering

Graduate School of International Resource Science, Akita University

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Development of Advanced Mineral Processing Technology and Recycling Process

Our laboratory is investigating development of treatment process of unutilized resources which are impurity containing and/or low grade and valuable metals contain electronic waste. The typical research work introduce as follows.

Development of advanced mineral processing technology of unutilized mineral resources

Treatment process of impurity bearing copper mineral.

Metal recovery form low grade ore and mine tailing. etc

Development of precious metal extraction process from wasted materials

Precious metal leaching process from printed circuit board by halogen leaching.

Development of novel extractant for selective extraction of precious metal. etc.

Development of Advanced Mineral Processing Technology for Utilization of Mineral Resources

Development of arsenic and antimony removal process to produce clean copper concentrate

Development of Precious Metal Extraction Process from Wasted Materials

Development of precious metal extraction process to recycle precious metal from wasted materials









