

SHIBAYAMA LAB.

[Mineral Processing and Recycling]

Integrated Research Center for Sustainable Energy and Materials

Mineral Processing Engineering

Development of Advanced Mineral Processing Technology and Recycling Process

Our laboratory is investigating the development of process for unutilized resources which are impurity containing and/or low grade minerals and valuable metals including the electronic waste. The typical research work is focusing as follows.

Development of advanced mineral processing technology of unutilized mineral resources

- ◆ Process for impurity bearing copper mineral.
- ◆ Metal recovery form low grade ore and mine tailings. etc

Development of precious metal extraction process from wasted materials

- ◆ Precious metal recovery process from E-waste by various leaching and purification.
- ◆ Development of novel extractant for selective extraction of precious metal. etc.

Development of Advanced Mineral Processing for Utilization of Mineral Resources

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



Development of Precious Metal Extraction Process from E-waste and Wasted Materials

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

