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Recent Trends in Phosphate Mining and Beneficiation and Related Waste Management

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Message from the Guest Editors

Dear Colleagues,

Phosphate extraction and beneficiation is one of the vital mining industries in the world, especially for the agriculture and food industries. Phosphorus derived from phosphate rock is a vital element of life and an exceptional component in fertilizers. However, high-grade phosphate reserves are known to decrease and the need to explore low-grade ores including waste rocks and tailings to extract apatite minerals is becoming more and more crucial. Also, many streams of waste are continuously produced by the phosphate industry: calcareous and siliceous waste rocks, clayey sludge and phosphogypsum. [...] The recovery of these vital elements from phosphate wastes may help to develop the needs of the green energy of the future and contribute to the achievement of the sustainable development goals.

Insights related to the following aspects will be included in this Special Issue:

- Phosphate extraction and beneficiation,
- Novel phosphate ores
- Fine characterization of phosphate ores and waste
- Phosphoric acid production
- CRM recovery from phosphate ores and wastes,
- Reprocessing of phosphate wastes
- Valorization and reuse of phosphate wastes and phosphogypsum

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Message from the Editor-in-Chief

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