Special Issue

Separation and Utilization of Coal-Based Solid Waste

Message from the Guest Editors

Coal-based solid waste generally includes coal gangue, coal ash, coal gasification slag, coal liquefaction residue, coal tar pitch, coke tar residue, desulfurized gypsum, etc. Coal-based solid waste is also a valuable resource. There would be a series of environmental problems including land occupation, heavy pollution, and air pollution, caused by the improper disposal of these wastes. However, great social and economic benefits would also be achieved with proper disposal approaches. Therefore, rational and efficient utilization should be an important way to deal with the problems. Research areas may include (but not limited to) the following:

- New exploration on chemical and physical properties of coal-based solid waste;
- Separation of carbon resources from coal-based solid waste by flotation, extraction, and other methods;
- Extraction of valuable elements from coal-based solid waste;
- Preparation of functional materials by coal-based solid waste, such as carbon materials, adsorption materials, cementitious materials, and building materials, etc;
- Other value-added utilization of coal-based solid waste;
- Clean disposal ways for coal-based solid waste.

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