

Call for Papers Energy recovery and landfill mining

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Journal of Environmental Engineering and Science

Editor: Sandro Lemos Machado, Federal University of Bahia, Salvador, Brazil

Journal of Environmental Engineering and Science is planning a themed issue for 2019 on energy recovery and landfill mining.

Energy recovery and landfill mining from closed landfills is an important contemporary theme in environmental engineering. The need to optimise disposal areas and the difficulties related to obtaining new areas for waste disposal, as well as the need to recover energy and materials from closed landfills, has been driving discussion and some research programs. This is particularly interesting in the case of landfills located in tropical regions, where biological processes are considerably faster. After a relatively short period of time (4–8 years), municipal solid waste is normally much drier than new waste and there tends to be a concentration of components with high calorific value (wood, plastics, paper/cardboard and expanded polystyrene) besides other materials of interest, such as metals. However, there are several challenges to energy recovery and landfill mining. Activities related to landfill reopening and excavation will demand important stability assessments and atmospheric emissions must be carefully considered when thermal recovery techniques are used. On the other hand, thermal technology should preferentially make use of the installed landfill infrastructure.

Suitable topics can include, but are not limited to, the following:

- **Municipal solid waste characterisation for landfill mining**
- **Energy recovery from closed landfills**
- **Thermal recovery techniques for landfill mining**
- **Environmental landfill mining challenges**
- **Landfill mining case studies**

The deadline for abstracts is 20 December 2018. The deadline for submissions is 30 April 2019.

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