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# Wastewater Land Treatment System: Research, Designs, and Operation

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### Message from the Guest Editors

Dear Colleagues,

Wastewater land application can be advantageous due to its low cost, energy use, greenhouse gas emissions, and maintenance requirements. Land application has been used for treating various wastewater types such as domestic, food processing, milking facility, farm residuals, etc. The use of onsite wastewater treatment systems is expected to increase to an estimated one-third of all new housing development and can cost 30–50% less to operate than a typical conventional wastewater treatment system. The topics covered in this Special Issue will include, but are not limited to to:

- Innovative research, design, and operation of wastewater land application.
- Impact of climate change on the performance of land application treatment systems.
- Groundwater recharge potential from land-applied wastewater land application.
- Potential greenhouse gas emission reduction associated with the energy usage in wastewater land application, compared to conventional wastewater treatment systems

Dr. Steven Safferman Dr. Younsuk Dong *Guest Editors* 







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### Message from the Editor-in-Chief

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