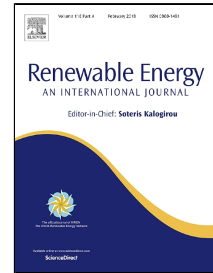


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Optimization of biogas productivity in lab-scale by response surface methodology

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Highlights

- Temperature, mixing time, inoculum percentage and TS content were evaluated as different variables by Response Surface Methodology (RSM).
- The most effective variable on the biogas production was obtained.
- The relation between the variables and methane production was modelled.
- The energy balance and net energy gain (NEG) in mesophilic and thermophilic conditions were evaluated.

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