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Natural microbial populations in a water-based biowaste management system for space life support

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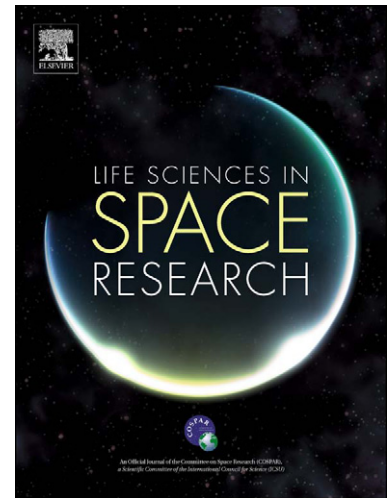
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Highlights

- The waste management system consists of a pumice-based filter inoculated with soil.
- We report filter performance during a 194 days test with diluted synthetic urine.
- Performance is characterized by low conversion rates combined with low nitrogen loss.
- It is assumed that there is a trade off between rates and nitrogen loss.
- Due to selective properties of urine the microbial diversity in the filters is low.

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