

THIRD WORLD SYMPOSIUM ON SUSTAINABILITY SCIENCE AND RESEARCH

Sustainability Futures: Challenges and Opportunities Towards a More Sustainable World

April 8

Sustainability indicators related to organic waste for educational institutions: A systematic review

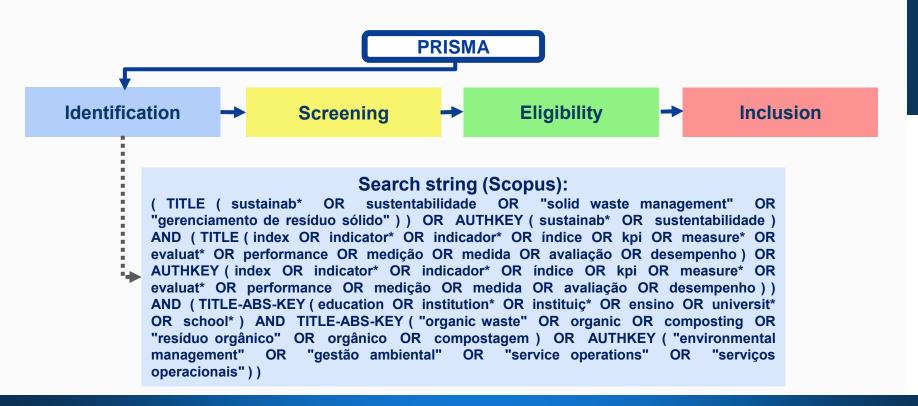
Yasmin Coelho de Freitas, Adriana Marcia Nicolau Korres and Fernanda Aparecida Veronez

OBJECTIVES OF THE PAPER

Identify the sustainability indicators related to organic residues applicable to educational institutions.

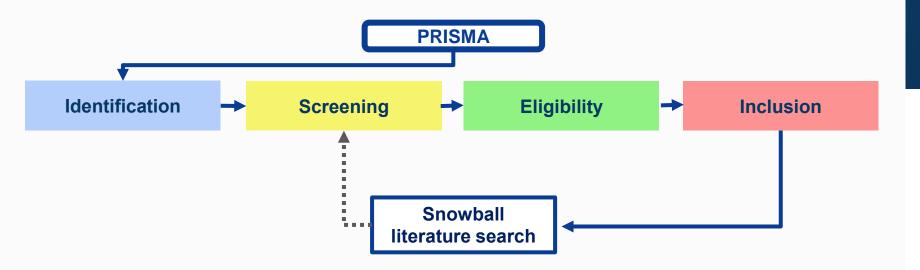
APPROACH USED

Preferred Reporting Items for Systematic reviews and Meta-Analyzes (PRISMA) method:



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KEY RESULTS

• Scopus: 73 publications → 8 publications selected

Sustainability indicators	Source	
Composting	Fadzil et al (2012); Suwartha & Sari (2013); Gómez et al (2015); Sousa et al (2017); Kasam et al (2018); Moreira et al (2018); Drahein et al (2019); Salguero-Puerta et al (2019).	
Programs for preventing food waste in cafeterias	Moreira et al (2018)	
Energy recovery of organic waste (biogas)	Salguero-Puerta et al (2019)	
Reduction in the volume of organic waste destined for landfill	Drahein et al (2019)	
Employee training who provide service in the restaurant in relation to selective collect	Drahein et al (2019)	
Proper disposal of organic waste	Drahein et al (2019)	
Selective collect of organic waste	Drahein et al (2019)	
Waste minimization and diversion	Fadzil et al (2012)	

 Environmental education programs and trainings that encourage selective collection and composting practices collaborate with the sustainable management of organic waste in educational institutions

MAIN CONCLUSIONS

- 8 publications that adressed the subject.
- 8 sustainability indicators related to theme were identified.
- Composting was the most frequent indicator, appearing in all selected publications.
- Environmental education programs in institutions was highlighted for the efficiency of selective collect and composting.
- Research gap related to organic waste and sustainability indicators, given the small number of studies that address the theme.

CONTACT DETAILS OF THE AUTHORS

Yasmin (Coelho	de Fi	reitas
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Federal Institute of Education, Science and Technology of Espirito Santo

Email:

yasmincoelhodefreitas@gmail.com

Adriana Marcia Nicolau Korres

Federal Institute of Education, Science and Technology of Espirito Santo

Email:

adrianak@ifes.edu.br

Fernanda Aparecida Veronez

Federal Institute of Education, Science and Technology of Espirito Santo

Email:

fveronez@ifes.edu.br