



Engineering Village

Publisher:
Elsevier

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Description:

- Large research database, including **Systematic reviews**
- Requires subscription

Question

What is the connection between **microplastics in the soil** and **plant growth**?

**Search
element /
PECO**

Exposure (E): Microplastics in
plant soil

Outcome (O): Plant growth

Study Design (S): Systematic
Review

Search

- Click “+Add search field” to add more search lines
- Put phrases in quotation marks ("terrestrial environment")
- Truncate with an asterisk * to search for multiple endings of a word (microplast* will search for microplastic, microplastics)
- Choose which parts of the text you want to search, for example in Subject/Title/Abstract
- Combine synonyms within the same search element with OR, and different search elements with AND
- Consider narrowing down to relevant publication years

Search 1 (I) Subject/Title/Abstract: microplast* **AND**

Search 2 (I): Subject/Title/Abstract: soil OR "terrestrial environment" OR "terrestrial environments"
AND

Search 3 (S): Title: "systematic review"

**A possible
answer**

Lima, J. Z., Cassaro, R., Ogura, A. P. & Vianna, M. M. G. R. (2023). A systematic review of the effects of microplastics and nanoplastics on the soil-plant system. *Sustainable Production and Consumption*, 38, 266–282. <https://doi.org/10.1016/j.spc.2023.04.010>