

CAB ABSTRACTS HOT TOPIC:

The fertilizer crisis

The world is experiencing a shortage of fertilizers. Poor availability and higher costs are threatening food supplies. Fertilizers are indispensable for increasing crop yields to feed the growing population. Much research is focused on effective fertilizer management and on alternatives to inorganic fertilizers, which are carbon costly and non-renewable, to overcome the crisis

CAB Abstracts facilitates research by scientists and specialists who can access the bibliographic database to search millions of records. The database covers information on fertilizers from all aspects, including horticultural science, soil science, chemistry, environment, technological advances, policy and government, sustainability and socioeconomics.

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CAB Abstracts sources the world literature to provide the complete picture on the development and use of fertilizers, including:

• **Fertilizer requirements:** Determining optimal fertilizer requirements allows achievement of maximum yields and prevents overapplication, reducing costs and protecting the environment.

A novel approach for determining nitrogen requirement based on a new agronomic principle-sugarcane as a crop model. *Plant and Soil, 2022*

QUEFTS model-based estimation of the nutrient requirements and fertilizer recommendation for Chinese onion. *HortScience*, 2022

• **New technologies:** Technology has upgraded fertilizer use management for the modern era.

Old problem, the Millennial solution: using mobile technology to inform decision making for sustainable fertilizer management.

Current Opinion in Environmental Sustainability, 2021

Smart fertilizer management: the progress of imaging technologies and possible implementation of plant biomarkers in agriculture.

Soil Science and Plant Nutrition, 2021

 Organic fertilizers: Inorganic fertilizers negatively impact the environment and degrade agricultural soils, but there are organic alternatives.

Application of granular and non-granular organic fertilizers in terms of energy, environmental and economic efficiency. *Sustainability*, 2021

Actinobacterial biofertilizer improves the yields of different plants and alters the assembly processes of rhizosphere microbial communities. *Applied Soil Ecology, 2022*

 Fertilizer use in developing countries: Fertilizers are often underutilized in less developed countries where their use could help alleviate poverty and hunger.
Site-specific agronomic information and technology adoption: a field experiment from Ethiopia.

Journal of Development Economics, 2022

Organic fertilizer use by smallholder farmers: typology of management approaches in northern Ghana. *Renewable Agriculture and Food Systems, 2021*

KNOWLEDGE FOR LIFE

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CABI Head Office, Nosworthy Way, Wallingford, Oxfordshire, OX10 8DE, UK T: +44 (0)1491 829313 F: +44 (0)1491 829198 E: sales@cabi.org