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Research Article

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Effects of precipitation and temperature on the species composition and pollinator efficiency of ocimum kilimandscharicum flower visitors in Kakamega forest ecosystem

Published On: December 23, 2023 | Pages: 039 - 047

Author(s): HM Tsingalia* and Mandela HK

Pollination, a critical ecosystem service in the maintenance of biodiversity is on the decline due to several factors including habitat loss, exotic pest invasions, pollution, overharvesting, climate, and land use changes. This study analyzed flower visitors' activity of *Ocimum kilimandscharicum* in the Kakamega forest. Specifically, the study sought to: (i) assess the ...

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Smallholder farmers' perception on climate change, information needs and adaptation strategies for improved pineapple (*Ananas comosus*) production in Awaé Cameroon

Published On: January 30, 2023 | Pages: 001 - 009

Author(s): Mekam Chantal Tchoupe, Ekwa Yawa Monono*, Estelle Assonwa, Kame Hannah Liengu Monono and Elisabeth Sailieh Mbomi

This study examined smallholder pineapple farmers' experiences of climate variability and change in production, as well as ranked adaptation and information source options using data from primary sources. The primary data consisted of a survey on pineapple growing in Awaé. The analysis revealed that pineapple farmers experience climate variability and change evidenced ...

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Enrichment and remediation of uranium by microorganisms: A review

Published On: October 19, 2023 | Pages: 020 - 038

Author(s): Qiuhan Yu and Ouyang Cui*

Uranium is a key raw material for the nuclear energy industry, the generation of nuclear energy is projected to double by 2040 to address the growing energy demands, which makes the uranium supply a matter of energy security. In addition, uranium is a heavy metal with both chemotoxicity and radiotoxicity, which seriously endangers human health and environmental safety ...

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Unveiling the draft genome sequence of diesel-degrading *Paenibacillus* sp. strain d9, a surfactant producer isolated from diesel-contaminated soil

Published On: August 09, 2023 | Pages: 018 - 019

Author(s): Vikas Sharma*, Roshini Govinden and Johnson Lin

Introduction: Gram-positive bacteria, particularly *Bacillus* and *Paenibacillus* spp., have gained significant attention for their potential in environmental bioremediation (biosurfactant production) and diverse biotechnological applications. Among these, *Paenibacillus* sp. D9, isolated from oil-contaminated soil, has shown diesel and engine oil degradation capabilities a ...

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On the question of the mechanism of the general toxic action of lead nitrate

Published On: May 30, 2023 | Pages: 015 - 017

Author(s): KZh Dakieva*

The leading unfavorable factor in the working environment that affects the health of miners is polymetallic dust, which contains a large number of toxic chemical elements. The study of the chemical composition of the floating dust in the air environment of the quarries of the East Kazakhstan copper-chemical plant and processing plant (Mamyrbayev, Konakbayev, 1992) showed ...

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[DOI: 10.17352/ojeb.000035](#)

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Biomass to hydrogen: A short biomass potential availability and conversion survey for Dutch municipalities

Published On: April 13, 2023 | Pages: 010 - 014

Author(s): Rob Bastiaans*

The local availability of lignocellulosic biomass was estimated for an arbitrary but representative Dutch municipality to facilitate the conversion and use of hydrogen on a decentralized scale. This study reveals that there is a large potential for this biomass at many locations to play important roles in the energy transition. It is meant as a call to the scientific ...

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