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In this issue

Research Article

Open Access Research Article PTZAID:AEST-4-126

Trophic contamination by octocrylene does not affect aerobic metabolic scope in juveniles clownfish

Published On: July 25, 2020 | Pages: 050 - 054

Author(s): Julie Lucas*, Valentin Logeux, Alice MS Rodrigues, Didier Stien and Philippe Lebaron

The effect of trophic exposure to Octocrylene (OC) on aerobic metabolism of clownfish Amphiprion ocellaris was investigated. There were no significant differences in Standard Metabolic Rate (SMR), Active Metabolic Rate (AMR) or aerobic metabolic scope (AS) at the concentration of 10 µg/g of octocrylene in diet of juvenile's clownfish whatever the time of exposure. Thi ...

Abstract View Full Article View DOI: 10.17352/aest.000026

Open Access Research Article PTZAID:AEST-4-125

Comparisons between different fire ants control methods in urban environments

Published On: July 11, 2020 | Pages: 045 - 049

Author(s): Elisa Furtado Fernandes, Helba H Santos-Prezoto, Raquel Mendonça, Mariana Monteiro de Castro, Odair Correia Bueno and Fábio Prezoto*

Many homemade methods are recommended for the control of fire ants, but the choice of a control method for this ants in the urban environment is necessary in view of the damage they have caused to the environment and human health. Thus, the objective of this work was to compare the efficiency of chemical (liquid insecticide and granular insecticide) and homemade (hot ...

Abstract View Full Article View DOI: 10.17352/aest.000025

Open Access Research Article PTZAID:AEST-4-123

Ecotoxicity of HfO2 and SiO2 Nanoparticles on Bacteria (anaerobic methane Archaea); Yeast (Candida albicans) and Biodegradability Tests

Published On: June 06, 2020 | Pages: 027 - 031

Author(s): Delia Teresa Sponza* and Nefise Erdinçmer

The applications nano-metal oxides (NMOs) are used in very common in industrial and consumer products because of the advantages of nanotechnology. The use of these NMOs cause the release of NMOs throughout the life cycle of nanoproducts to air, soil, water, and sediments. Knowledge of potential toxicity of nanoparticles to organisms is limited. To determine the toxico ...

Abstract View | Full Article View | DOI: 10.17352/aest.000023

Open Access Research Article PTZAID:AEST-4-122

Mutual Effects of Environment and Urbanization: A Sociological Assessment

Published On: June 04, 2020 | Pages: 024 - 026

Author(s): Mohammad Taghi Sheykhi*

The article explores how urban areas are widely affecting the environment with special reference to the developing countries. Urbanization as the outcome of population growth in rural areas, decline of agricultural productivity and migration is creating more economic activities and dynamics in towns and cities leading to environmental issues and challenges. It is well ...

Abstract View | Full Article View | DOI: 10.17352/aest.000022

Open Access Research Article PTZAID:AEST-4-121

Analysis of insecticide residues in cabbage (Brassica oleracea var. Capitata) from three major markets in Kumasi

Published On: May 27, 2020 | Pages: 019 - 023

Author(s): Kingsley George Otchere*, Joseph Issifu Adam, John Asiedu Larbi, Sally Amponsah Basil and Albert Banunle

Cabbage from 3 major markets (Abinchi, Bantama and Sofoline) in Kumasi were screened for organochlorine, organophosphate and pyrethroid insecticide residues. Ninety cabbage heads - 30 from each market – were randomly sampled and analysed at the Pesticide Residues Laboratories of the Ghana Standards Authority, Accra. The analysis was carried out using Multiple Reaction ...

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Open Access Research Article PTZAID:AEST-4-119

Bioaccumulation of trace elements in lichens exposed to geothermal and volcanic activity from copahue-caviahue volcanic complex, patagonia, Argentina

Published On: April 04, 2020 | Pages: 005 - 015

Author(s): Débora Fabiana Bubach*, Soledad Perez Catán, María Inés Messuti, María Angélica Arribére and Sergio Ribeiro Guevara

The atmospheric pollution associated with the volcano Copahue activity was evaluated by analyzing the concentration of 33 elements including heavy metals in lichens. Fruticose thalli were collected between 7 and 18 km from the volcano crater, comprising a geothermal zone. Analytical data and geographic parameters were evaluated by Principal Component Analysis. Enrichm ...

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Open Access Research Article PTZAID:AEST-4-118

Health risks of essential Ni and Fe via consumption of water spinach Ipomoea aquatica collected from Peninsular Malaysia

Published On: January 23, 2020 | Pages: 001 - 004

Author(s): Chee Kong Yap*, Wan Hee Cheng, Koe Wei Wong, Aziran Yaacob, Rozilah Razalai, Chee Seng Leow, Shih Hao Tony Peng, Mohamad Saupi Ismail, Chee Wah Yap, Yuhai He, Moslem Sharifinia, Alireza Riyahi Bakhtiari and Salman Abdo Al-Shami

The concentrations of Fe and Ni were analyzed in the water spinach Ipomoea aquatica collected from 11 sampling sites (Ara Kuda (2016), Setiawan (2016), Sikamat (2013-2018) and 8 sites in Sepang area (2005-2006)) from Peninsular Malaysia. The range of Fe (mg/kg dw) in the plant samples was 155-775(15.5-77.5mg/kg ww) while the range of Ni(mg/kg dw) was 1.71-20.3(0.17-2. ...

Abstract View | Full Article View | DOI: 10.17352/aest.000018

Review Article

Open Access Review Article PTZAID:AEST-4-128

Synthesis and assessment of the bio pesticides from excerpts of tobacco, for the reduction of the agricultural pollution

Published On: December 30, 2020 | Pages: 058 - 063

Author(s): Chitack Fokam Richard*, Tcheumi Hervé, Miantsia Olivier and Tzété Nathalie Sandrine

Agriculture uses big quantities of chemical pesticides nowadays. In the same way to their beneficial effects for the cultures, the pesticides express their ominous effects quietly on health and environmental. This work appears in a perspective of alternative research of treatments phytosanitary respectful of the environment in the control of the cultures. The general ...

Abstract View | Full Article View | DOI: 10.17352/aest.000028

Open Access Review Article PTZAID:AEST-4-124

Molybdenum potential vital role in plants metabolism for optimizing the growth and development

Published On: June 17, 2020 | Pages: 032 - 044

Author(s): Muhammad Shoaib Rana, Parashuram Bhantana, Muhammad Imran, Muhammad Hamzah Saleem, Mohamed G Moussa, Zaid Khan, Imran Khan, Mufid Alam, Muhammad Abbas, Rana Binyamin, Javaria Afzal, Muhamad Syaifudin, Intisar Ud Din, Muhammad Younas, Ilyas Ahmad, Md Ashrafuzzaman Shah and Chengxiao Hu*

Molybdenum importance for appropriate plant functioning and growth is inconsistent by the most of the plants in respect to the total quantity that is obligatory for them. ...

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Short Communication

Open Access Short Communication PTZAID:AEST-4-127

Potential spreading risks of Covid-19 and chemical-based disinfection challenges to the environment, ecosystem and human health

Published On: August 04, 2020 | Pages: 055 - 057

Author(s): Hafeez Ur Rahim* and Tariq Rahim

Because of the current situation regarding the Covid-19 pandemic in more than 200 countries and territories, an early discussion is proposed on the use of chlorine-based disinfectants as an important precautionary measure to disinfect the surfaces and kill the Covid-19. However, the excessive use of chlorine-based disinfectants will surely make the highest residual co ...

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Perspective Study

Open Access Perspective Study PTZAID:AEST-4-120

Possibility of estimating radioactive fallout by modelling atmospheric processes

Published On: April 22, 2020 | Pages: 016 - 018

Author(s): HG Hasanov* and IM Zeynalov

The paper suggests methods and means for solving problems of determining contamination by radioactive waste, appearing as precipitation when moving radioactive particles in the atmosphere. The model for predicting and evaluating radioactive fallout is developed. Meteorological conditions determine the conditions for turbulent diffusion of pollution on a regional and g ...

Abstract View | Full Article View | DOI: 10.17352/aest.000020