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In this issue

Research Article

Open Access Research Article PTZAID:AEST-6-162

Influence of high temperatures on Post-COVID-19 conditions

Published On: December 27, 2022 | Pages: 120 - 128

Author(s): D Hristova*, I Simova and T Vekov

Patients with chronic diseases are especially vulnerable on hot days because high temperatures lead to exacerbation of a number of cardiovascular, neurological, autoimmune, and other chronic diseases. Acute SARS-CoV-2 infection has left tens of thousands of Bulgarians suffering from a new chronic disease: Post COVID-19 syndrome. The Bulgarian Cardiac Institute, in tre ...

Abstract View Full Article View DOI: 10.17352/aest.000062

Open Access Research Article PTZAID:AEST-6-161

Antimicrobial activity of bacteria isolated from *Leptinotarsa decemlineata* and *Solanum tuberosum*

Published On: December 20, 2022 | Pages: 105 - 119

Author(s): Tatiana A Efimenko*, Andrey V Yakushev, Mariia V Demiankova, Alla A Glukhova, Tamara I Khusnetdinova, Vera S Sadykova and Olga V Efremenkova

From the intestinal microbiota of Colorado potato beetles and their larvae (Leptinotarsa decemlineata), as well as from their feed – potato leaves, 18 bacteria of different species exhibiting antimicrobial activity (56% of the total number of isolated strains) were isolated. The species of bacteria from all three sources of excretion are different. The following 12 sp ...

Abstract View Full Article View DOI: 10.17352/aest.000061

Open Access Research Article PTZAID:AEST-6-159

Modeling the groundwater level for an arid aquifer under different groundwater management scenarios

Published On: December 09, 2022 | Pages: 087 - 096

Author(s): Karim Soliman*

Groundwater is considered the only source of water in arid climate regions. Additionally, population growth is stressing the groundwater resources in the study area, especially in these regions leading to excess groundwater exploitation to meet the demands (domestic, and agricultural). Thus, the groundwater level may decline in the future causing a water scarcity prob ...

Abstract View | Full Article View | DOI: 10.17352/aest.000059

Open Access Research Article PTZAID:AEST-6-157

The phenological stages of forestry species under the impact of climate change• Early data

Published On: November 15, 2022 | Pages: 069 - 073

Author(s): Dimitra Papagiannopoulou* and T Tsitsoni

Urban areas have a dual role in climate change· they are major contributors to climate change as they produce more than 70 percent of greenhouse gas emissions and they also accept the impact of it. Urban trees have great value in urban ecosystems because of their role as carbon sinks, so they contribute to climate change mitigation. The aim of this paper is to collect ...

Abstract View | Full Article View | DOI: 10.17352/aest.000057

Open Access Research Article PTZAID:AEST-6-156

The determinants of bushmeat consumption in urban areas in Laos

Published On: October 18, 2022 | Pages: 063 - 068

Author(s): Phoyduangsy Saysamone, Bounmy Inthakesone*, Phonekeo Viraxay, Syphoxay Pakaiphone, CHANSAMONE Luanglath and Vannisa Thammachack

This study aims to examine the determinants of bushmeat consumption in urban areas in Laos. Men consume more bushmeat than women. Job, the government official was the major bushmeat consumer, but there was no proven by statistical approaches from this study we have done. The education of people who consume bushmeat has finished high school level. Ethnic, Lao Loum peop ...

Abstract View Full Article View DOI: 10.17352/aest.000056

Open Access Research Article PTZAID:AEST-6-155

Grass species litter have varied trait response to the photodegradation and microbial decomposition in tropical savanna grasslands, South Africa

Published On: September 15, 2022 | Pages: 054 - 062

Author(s): Mmoto L Masubelele* and William Bond

Purpose of the paper: This paper evaluated the effects of microbial and photodegradation on the ten grass species in a tropical grassland ecosystem in South Africa. Despite continuous necromass accumulation in tropical grasslands, the process that governs how the grass litter gets to the soil has often been ignored. In the absence of fire, abiotic factors and biotic f ...

Abstract View Full Article View DOI: 10.17352/aest.000055

Open Access Research Article PTZAID:AEST-6-151

Antimicrobial and synergistic potential of Ocimum gratissimum leaves and Petiveria alliacea bark against some selected microorganisms

Published On: May 12, 2022 | Pages: 041 - 046

Author(s): Idris Saheeb Oladele and Foluso Akinbode Ologundudu*

Background: This study was carried out to investigate the antimicrobial and synergistic potential of the leaves of Ocimum gratissimum and bark of Petiveria alliacea against some tested bacterial and fungal isolates. Fresh and matured leaves of Ocimum gratissimum and bark of Petiveria alliacea were collected from the Institute of Agriculture, Research and Training, Iba ...

Abstract View Full Article View DOI: 10.17352/aest.000051

Open Access Research Article PTZAID:AEST-6-150

Effect of Water and Soil Contamination by Heavy Metals in Lettuce (Lactuca

sativa), Cabbage (Brassica oleracea var. capitate), and Turnip (Brassica napus L.) at Different Stage

Published On: April 05, 2022 | Pages: 035 - 040

Author(s): Nibret Mekonen* and Girum Habte

Environmental pollution with heavy metals is very harmful to the human body and other life forms, even in low concentrations, as there is no effective removal mechanism. Urban agriculture utilizes this contaminated land for the cultivation of vegetable crops to facilitate their food security and entry of toxic heavy metals into the food chain. The objective of this st ...

Abstract View | Full Article View | DOI: 10.17352/aest.000050

Open Access Research Article PTZAID:AEST-6-148

Evaluation of the concentration of suspended particles in underground subway stations in Tehran and its comparison with ambient concentrations

Published On: March 17, 2022 | Pages: 019 - 025

Author(s): Sareh Daneshgar, Rahim Zahedi* and Omid Noudeh Farahani

Subway lines are responsible for 20% of the total passenger traffic in Tehran. Particulate matter is one of the most important major pollutants in subway stations and increasing their concentration leads to numerous health consequences for passengers and subway employees. This study aims to investigate the concentration of PM10 and PM2.5 in four underground metro stat ...

Abstract View | Full Article View | DOI: 10.17352/aest.000048

Open Access Research Article PTZAID:AEST-6-147

Estimation of enteric methane emission factor in cattle species in Ethiopia using IPCC tier 2 methodology

Published On: March 12, 2022 | Pages: 013 - 018

Author(s): Million Tadesse, Kefale Getahun* and Ulfina Galmessa

Aims: The livestock production system contributes to global climate change directly through the production of methane (CH4) from enteric fermentation, CH4 and nitrous oxide (N2O) from manure management. Enteric CH4 emission from livestock is the major contributor to greenhouse gas (GHG) emission from livestock in Ethiopia. National inventory and reporting of enteric C ...

Abstract View | Full Article View | DOI: 10.17352/aest.000047

Open Access Research Article PTZAID:AEST-6-146

Minimizing human race creating an unknown climate leading to pandemics-Need of the time

Published On: January 06, 2022 | Pages: 001 - 012

Author(s): K Suresh*

We are on a planet that orbits the Sun which emits a huge amount of energy. The climate we experience is a result of an energy gradient across Earth and an imbalance in energy across the world due to axial tilt of Earth rotation. ...

Abstract View | Full Article View | DOI: 10.17352/aest.000046

Review Article

Open Access Review Article PTZAID:AEST-6-160

Renewable energy consumption and Inclusive Growth: Evidence from 20 African countries

Published On: December 20, 2022 | Pages: 097 - 104

Author(s): Asiedu Ampomah Benjamin*

In Africa, the need for energy is growing. When it comes to renewable energy resources in Africa zone, it is unequivocally needed. Many African countries are experiencing development therefore they are shifting to the use of renewable energy. In that view, this study aims to discover the potential impact of renewable energy consumption on inclusive growth in 20 Africa ...

Abstract View | Full Article View | DOI: 10.17352/aest.000060

Open Access Review Article PTZAID:AEST-6-158

Assessment of Farmers' Perceptions on Soil Erosion and Soil Conservation

Techniques in Zing Local Government Area of Taraba State, Nigeria

Published On: November 29, 2022 | Pages: 074 - 086

Author(s): Yusuf MB, Abdullahi I, Thomas E and Vincent N Ojeh*

In Zing LGA of Taraba State, the study evaluated farmers' perceptions of soil erosion and their soil conservation practices. To gather information for the study from the farmers and the farmland, field observation, informal interviews, and the use of research instruments including questionnaires and remotely sensed imageries were all used. These data were analyzed in ...

Abstract View | Full Article View | DOI: 10.17352/aest.000058

Open Access Review Article PTZAID:AEST-6-149

The impact of stock market capitalisation, international investment, clean energy on CO2 emissions: New insight from listed domestic companies in Belgium

Published On: March 30, 2022 | Pages: 026 - 034

Author(s): Benjamin Ampomah Asiedu* and Emmanuel Adu Boahen

The paper fundamentally explores the impact of Belgium's stock market capitalization, international investment, clean energy on CO2 emissions from 1990-to 2018. More pertinently, our study analogizes the diverse impact of Belgium's stock market capitalization, international investment, clean energy, and environmental quality. Through cointegration analysis, stock mark ...

Abstract View | Full Article View | DOI: 10.17352/aest.000049

Case Report

Open Access Case Report PTZAID:AEST-6-153

Application of the standard case definition in the case of Congo-Crimean Hemorrhagic Fever (CCHF) in the Zhambyl region of Kazakhstan

Published On: August 19, 2022 | Pages: 050 - 051

Author(s): Andrey M Dmitrovskiy*, Pak Ye, Syzdykov S, Ryabushko YeA, Kamytbekova KZh and Iskakova FA

In the presented case, a typical example of CCHF is described, a patient who lives in an endemic territory and had risk factors for infection – cattle keeping and tick bite. The patient sought medical help in a timely mannert, but his diagnosis of CCHF was made late, due to underestimation of the risk factors for CCHF infection and non-use of the standard case

definit ...

Abstract View | Full Article View | DOI: 10.17352/aest.000053

Short Communication

Open Access Short Communication PTZAID:AEST-6-154

The mining of cobalt must meet the highest environmental and health standards

Published On: August 30, 2022 | Pages: 052 - 053

Author(s): Michael NA Eskin*

In an effort to combat climate change there is a major rush to eliminate the use of fossil fuels. However, this must be done in an orderly process to avoid stressing an already overstressed planet. The push for electric cars and lithium batteries requires intensive mining to extract the heavy metals needed to meet increasing global demands. This is in addition to the ...

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Perspective Study

Open Access Perspective Study PTZAID:AEST-6-152

Role of Science, Technology, Executive, and Public (STEP) in Environmental conservation and waste management and the scenario in Politically and Militarily Conflicted Regions (PMCRs) of the world

Published On: June 30, 2022 | Pages: 047 - 049

Author(s): Ashraf Zainabi* and Obeida Asharf

Environmental conservation and waste management is a great challenge around the world. The realization of safe water, air, sanitation, and hygiene (WASH) for the world is a distant dream. Barring few developed countries, the rest of the world, and more importantly, the third-world countries are struggling hard to achieve safe WASH. India and China are no exceptions. G ...

Abstract View | Full Article View | DOI: 10.17352/aest.000052