2025 | Volume Volume - 10 - Issue Issue - 3

In this issue

Research Article

Open Access Research Article PTZAID:IJASFT-10-318

Cells Total Antioxidant Capacity (TAC) and External Expression of Enzymatic Browning for the Commercially Important Penaeids Prawns *Parapenaeus longirostris* and *Penaeus kerathurus*

Published On: September 25, 2024 | Pages: 141 - 149

Author(s): Georgios K Efthymiadis, Spyridon Karkabounas, Nikos Stamatis and Chryssa Anastasiadou*

The enzymatic browning process, known also as melanosis, is a significant indicator of oxidative damage in commercially important shrimps and prawns. Total Antioxidant Capacity (TAC) serves as a vital measure of molecular defense against melanosis, a crucial mechanism for organisms to combat detrimental factors such as free radicals. This contribution delves into the ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000218

Open Access Research Article PTZAID:IJASFT-10-317

Technology Development with Zero Tillage and Stubble Residue Management for Sustainable Soil Health and System Productivity in Wheat-maize Cropping Pattern

Published On: August 17, 2024 | Pages: 131 - 140

Author(s): S Ghosh and A Ghosh*

Conventional farm operations comprising traditional soil tillage and burning stubble residues become the cause of concern for soil sickness threatening sustainable system productivity. Wheat and maize constituting one of the predominant cropping systems strive with the commitment of substantial contribution to the world food security front. A better understanding of t ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000217

Open Access Research Article PTZAID:IJASFT-10-315

Effects of Weeding Frequency and NPS Fertilizer Rates on Barley (*Hordeum vulgare*

L.) Yield performance, Western Ethiopia

Published On: July 27, 2024 | Pages: 114 - 123

Author(s): Jaleta Mendera, Zerihun Jalata* and Alemayehu Wagari

Background: Food barley is one of the main staple crops in Ethiopia, however, its production is influenced by several factors including the effect of weeds and low soil fertility. Purpose: An experiment was conducted with the objective of investigating the combined impact of weeding frequencies and NPS fertilizer rates on barley growth and yield performance. Metho ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000215

Open Access Research Article PTZAID:IJASFT-10-314

Agriculture Practices in the Danuwar Community of Nuwakot District, Nepal

Published On: July 11, 2024 | Pages: 107 - 113

Author(s): Umesh Acharya and Roshan Bhandari*

The Danuwar community is an indigenous group predominantly inhabiting the Terai, and Hilly regions of Nepal, practicing traditional agriculture. This study examines the current agricultural practices of the Danuwar community of Ganesthan, Nuwakot district, Nepal. Primary data were collected from direct field surveys with the help of structured and semistructured quest ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000214

Open Access Research Article PTZAID:IJASFT-10-313

Determining Critical Weed Competition at Different Weed Free Periods in Linseed in Holeta District Central Ethiopia

Published On: July 09, 2024 | Pages: 101 - 106

Author(s): Bogale Ayana*

A substantial proportion of linseed yield is lost due to weeds in the Holeta area of Central Ethiopia. The weeds infest the crop fields during the early growth stage and consume growth resources. To protect the crops from weeds, farmers manage their fields using cultural practices. However, there is a knowledge gap between farmers on critical weed removal time for the ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000213

Review Article

Open Access Review Article PTZAID:IJASFT-10-316

Anaerobic Digestion for Pathogen Reduction in Waste Treatment and Safe Agricultural Use of Digestates

Published On: August 14, 2024 | Pages: 124 - 130

Author(s): Habib Oluwasegun Giwa, Halima Nihinlolawa Giwa*, Sunday Odey Alepu, Wang Zelong* and Abdulmoseen Segun Giwa*

Anaerobic Digestion (AD) is a widely used process for treating organic wastes and producing renewable energy. This review examines the effectiveness of AD in reducing pathogens in various waste streams and evaluates the safety of using digestates as agricultural fertilizers. The mechanisms of pathogen inactivation during AD are explored, including the roles of tempera ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000216

Mini Review

Open Access Mini Review PTZAID:IJASFT-10-312

Sanitary Problems and Trace Metals Bioaccumulation during Drip Irrigation with Treated Wastewater in Okra

Published On: July 06, 2024 | Pages: 094 - 100

Author(s): Mohamed Naceur Khelil*, Malika Mahmoudi, Rim Ghrib and Samir Yacoubi

Water scarcity, mainly in arid and semi-arid zones, has encouraged efforts to adopt non-conventional waters for food production and agricultural development. Treated Wastewater (TWW) is one of the most continuously produced, accessible, and inexpensive water resources, with great potential for use in irrigation. The aim of this study was to investigate the combined ef ...

Abstract View Full Article View DOI: 10.17352/2455-815X.000212