

Table of Contents

Volume 19, Issue 8 — August 2025

Research Articles

1.

Development of Laser Light Observation Methods for Understanding the Cytoskeleton Components Relationship with Cell Life Processes: A Pilot Study

Iskra Sainova, Iлина Valkova, Elena Nikolova, Angel Baldzhiev, Angel Alishev, Marin Nenchev

Keywords: 3D imaging, laser irradiation, cytoskeleton, electron density, intracellular structures

2.

Estimation of Wheat Supply Revisited: A Case Study

Dr. Brahim Fezzani, Dr. Dilyara Nartova, Sarah Chawsheen

Keywords: wheat supply, Nerlovian adjustment, Kurdistan agriculture, supply elasticity, economic blockade

3.

Differences in Defence Situational Activity Indicators Between Successful and Less Successful Teams in Elite Men's Handball

Sanja Bajgoric, Nenad Rogulj, Marijana Cavala, Ante Burger

Keywords: handball, defense, performance analysis, goalkeeper efficiency, situational activity indicators

4.

Sensor System for Continuous Real-Time Measurement of Soil Mechanical and Physical Properties

Lies Boudhar, Mahfoud Amara, M. Amine Feddal

Keywords: soil sensors, Arduino, real-time measurement, precision agriculture, soil conductivity, Bluetooth communication, GPS integration

5.

Modes of Nasopharyngeal Carcinoma Presentation

Adnan H. Muhammed Ali, Muhammed Ridha H. Shubber

Keywords: nasopharyngeal carcinoma, early symptoms, diagnosis, treatment outcomes, head and neck cancer

6.

A Study of Hispanic Students' Perceptions of Homophily and Immediacy and Their Relationships to Perceived Affective Learning and Content Relevance

Jeffrey S. McQuillen, Cory B. Cunningham, Deberah Infante Rutigliano

Keywords: Hispanic students, homophily, nonverbal immediacy, affective learning, content relevance

7.

Tillage Effects on Soil Properties and Plant Development in a Clay Soil in Algeria

Feddal Mohamed Amine, Amara Mohamed, Echcherki Samir, Boudhar Lynda, Bentahar Djamil

Keywords: tillage, soil properties, plant development, clay soil, root density, Algeria, wheat yield

8.

An Efficient Distributed Collaborative Camera Actuation Algorithm for Redundant Data Elimination in Wireless Multimedia Sensor Networks

Hager Ramadan, Ahmed Salim

Keywords: Wireless Multimedia Sensor Networks, Camera Actuation, Data Redundancy, Field of View, Event Detection, Distributed Algorithms, Sensor Networks

9.

Examination on Personality Traits and Life Goals of Teachers According to Certain Variables

Zöhre Kaya, Gamze Mukba

Keywords: personality traits, life goals, teachers, gender differences, job satisfaction, extrinsic goals, intrinsic goals

10.

Convection-Diffusion Model of Quorum Sensing in Bacteria

Sarangam Majumdar, Subhoshmita Mondal

Keywords: Quorum sensing, Mathematical modeling, Pseudomonas aeruginosa, Numerical simulation, Diffusion coefficient

11.

Kinetics of the Nonbranched-Chain Addition of Free Radicals

Michael M. Silaev

Keywords: free radicals, nonbranched-chain reactions, kinetic equations, unsaturated compounds, autoinhibitory processes

12.

The Role of Vision in Walking Patterns in Children with Different Levels of Motor Coordination

Miriam Palomo-Nieto, Reza Abdollahipour, Rudolf Psotta, Ludvik Valtr, Luis Miguel Ruiz Pérez

Keywords: vision, gait pattern, motor coordination, developmental coordination disorder, children, visual feedback, walking

13.

Yield and Water Productivity Response of Drip-Irrigated Winter and Spring-Sown Chickpea in Mediterranean Environment

Servet Tekin, Attila Yazar, S. Metin Sezen, C. Ibrahim Yilmaz, Durdane Mart

Keywords: chickpea, deficit irrigation, Mediterranean climate, water productivity, sowing date, drip irrigation, crop yield