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Research Articles

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Examining the Efficacy of Mindfulness-Based Therapy in Reducing Anxiety and Depression Symptoms

Alessandro Rossi, Jiawei Chen, Amina Hassan

University of Tartu, Tartu, Estonia; University of Patras, Patras, Greece; Kyungpook National University, Daegu, South Korea

Keywords: mindfulness-based therapy, anxiety, depression, clinical psychology, randomized controlled trial, cognitive-behavioral therapy

2.

Innovative Approaches to Enhance Conductivity in Graphene-Based Nanocomposites for Energy Applications

Leila Safarova, Mateo López, Jing Wei

Baku State University, Baku, Azerbaijan; University of Manitoba, Winnipeg, Canada; Massey University, Palmerston North, New Zealand

Keywords: graphene nanocomposites, electrical conductivity, energy storage, spectroscopic techniques, silver nanowires, materials chemistry

3.

Examining Climate Adaptation Strategies in Diverse Ecosystems: Lessons from Global Perspectives

Lukas Müller, Aminat Bakare, Hiroshi Tanaka

Lukas Müller - University of Graz, Graz, Austria; Aminat Bakare - University of Ibadan, Ibadan, Nigeria; Hiroshi Tanaka - University of Wollongong, Wollongong, Australia

Keywords: climate change, biodiversity, ecosystem resilience, phenotypic plasticity, species distribution, conservation strategies

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4.

Evaluating Efficient Irrigation Techniques for Sustainable Agriculture in Varied Climatic Zones

Mikko Järvinen, Liyuan Wei, Fatima Al-Mansoori

University of Turku, Turku, Finland; University of the Philippines Diliman, Quezon City, Philippines; Oklahoma State University, Stillwater, USA

Keywords: Drip irrigation, Water scarcity, Soil moisture, Climate zones, Sustainable agriculture, Crop productivity

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5.

Exploring Continuous Functions in Non-Hausdorff Spaces: A Topological Perspective

Lucas Nogueira, Amira Al-Farsi, Wei Chen

Lucas Nogueira: Central University of Venezuela, Caracas, Venezuela; Amira Al-Farsi: Yarmouk University, Irbid, Jordan; Wei Chen: Addis Ababa University, Addis Ababa, Ethiopia

Keywords: non-Hausdorff spaces, continuous functions, topological invariants, limit points, mathematical topology, space continuity

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6.

Investigating Zoonotic Pathogen Transmission in Urban Settings: An Epidemiological Approach

Dr. María Gutierrez, Dr. Ahmed Al-Farsi, Dr. Chen Wei

Dr. María Gutierrez: National University of La Plata, La Plata, Argentina; Dr. Ahmed Al-Farsi: University of Costa Rica, San José, Costa Rica; Dr. Chen Wei: Lanzhou University, Lanzhou, China

Keywords: zoonotic diseases, urban epidemiology, pathogen transmission, public health, cross-sectional study, disease surveillance

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7.

Mechanistic Insights into RNA Splicing: A Cross-Species Analysis of Processing Pathways

Chen Wu, Amira Haddad, Olzhas Tursynov

Lanzhou University, Lanzhou, China; Jordan University of Science and Technology, Irbid, Jordan; Kazakh National University, Almaty, Kazakhstan

Keywords: RNA processing, splicing pathways, exon-intron structure, high-throughput sequencing, alternative splicing, splicing factors

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8.

Investigating Thermodynamic Efficiency in Renewable Energy Systems: A Cross-Continental Study

Santiago Ortega, Mei-Lin Zhang, Fatima Al-Mansouri

Santiago Ortega: National University of La Plata, La Plata, Argentina; Mei-Lin Zhang: Massey University, Palmerston North, New Zealand; Fatima Al-Mansouri: University of the South Pacific, Suva, Fiji

Keywords: thermodynamic efficiency, renewable energy systems, solar thermal, wind energy, hydroelectric efficiency, climatic impact

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