

## Table of Contents

Volume 18, Issue 4 — April 2024

---

### Research Articles

---

1.

#### **Resources and Water Sharing in the Oasis of Beni Abbes, Algeria: A Historical and Contemporary Analysis**

Rezzoug Cherif, Remini Boualem, Hamoudi Saad

*Keywords: Water management, Oasis agriculture, Groundwater exploitation, Traditional irrigation, Beni Abbes, Environmental degradation, Algerian Sahara*

---

2.

#### **A Redevelopment Approach of a Historical Market in Sylhet City, Bangladesh**

Md. Mustafizur Rahman, Shahidul Islam, Mohammad Tanvir Hasan

*Keywords: urban redevelopment, market design, spatial planning, Sylhet City, circulation patterns*

---

3.

#### **The Effect of Physical Therapy and Cognitive Behavioral Therapy in Female Students with Anxiety and Depression: A Randomized Controlled Study**

Dr. Nashwa Sayed Hamed, Dr. Fatma Moustatfa Abdel Aty

*Keywords: Anxiety, Depression, Physical Therapy, Cognitive Behavioral Therapy, Female Students*

---

4.

#### **Splitting Graph on Even Sum Cordial Labeling of Graphs**

R. Dhavaseelan, R. Vikramaprasad, S. Abhirami

*Keywords: splitting graphs, even sum cordial labeling, bipartite graphs, helm graphs, flower graphs, graph theory, combinatorial optimization*

---

**5.**

### **Synthesis, Characterization and Antimicrobial Activity of New Heterocyclic Compounds Incorporating Pyridazine Moiety**

Nadia T. A. Dawoud, Nahed F. Abdel-Ghaffar, Mona M. Abdl-galil, Fekria M. A. Soliman, Heba M. Zaki

*Keywords: Heterocyclic compounds, Pyridazine, Coumarin derivatives, Antimicrobial activity, Anti-inflammatory activity*

---

**6.**

### **Molecular Markers as Indicators of the Use of Carbofuran in Agro-Ecosystems**

Jorge Perez, Antonio Rivera, Felipe Hernandez, Oscar Romero, Laura Cedillo, Patricia Sanchez-Morales

*Keywords: Carbofuran, Agro-ecosystems, Molecular markers, Pseudomonas sp., Enzymatic assays, UV-vis spectroscopy*