

## **Environmental Contaminants Reviews (ECR)**

#### **HEAD OFFICE ADDRESS:**

#### Zibeline International Publishing Sdn Bhd

C2-2-3, Block 2, CBD Perdana 3, Persiaran Cyberpoint Timur, Cyber 12, 63000 Cyberjaya, Selangor.

**Tel:** +603-86879842

#### **EDITORIAL STAFF:**

#### **Publishing Manager**

Tasbia Ab Rajul

#### **Publishing Editor**

Nurul Afiqah Ab Manan

#### **Publishing Editor**

Rozalaidah Abdul Karim

#### **Technical Editor**

Nuraliah Natasha Amirrulhisam

#### **Technical Editor**

Muhammad Aqil Zikry Mohd Nizam

#### Frequency:

Bi-annual (2 issue per year)

ISSN: 2637-0778 (Online)

#### Price:

Single issue: 50 MYR Price for abroad Single issue: 25 USD

#### Web:

www.contaminantsreviews.com

#### E-mail:

info@zibelinepub.com

# **Environmental Contaminants Reviews (ECR)**

## Contents

VOLUME 5, ISSUE 1, 2022		
No	Editorial	Pages
1	THE REMOVAL OF METHYLENE BLUE DYE FROM AQUEOUS SOLUTION THROUGH BIO-ADSORBENTS (EGGSHELL, DATE PALM SEEDS AND PAPAYA SEEDS)	01-08
2	SECONDARY DATA ANALYSIS ON PESTICIDE-GENE-DISEASE RELATIONS	09-14
3	POLLUTION EVALUATION AND HEALTH RISK ASSESSMENT OF HEAVY METALS IN STREAM WATER AT EAST AKIM MUNICIPAL ASSEMBLY, GHANA	15-22
4	PROFILE COMPOSITION AND RISK EVALUATION OF PAHS IN BOREHOLE WATER FROM AMASSOMA, BAYELSA STATE, NIGERIA	23-30
5	EVALUATION OF TOXIC ELEMENTS IN GROUNDWATER IN THE INDUSTRIES AREA OF NNEWI NORTH SOUTH-EASTERN NIGERIA	31-34
6	PAH EXPOSITION AND CARCINOGENICITY RISK EVALUATION IN SOILS FROM NIGER DELTA, NIGERIA	35-39

### **Environmental Contaminants Reviews (ECR)**

#### **Editorial**

The universe is an amazing place. It is vaster than it is possible to measure, stranger and more magical than any science fiction or fantasy, more beautiful than any art, and far more complex than can ever be imagined. Studying the universe – studying science – whether that is on the grandest scales of cosmology, the smallest scales of quantum physics and subatomic chemistry, or the beautiful complexity of life, is to set yourself on the path to an adventure that will stay with you forever. The most beautiful thing we can experience is the mysterious. It is the source of all true art and science. Science is beautiful when it makes simple explanations of phenomena or connections between different observations. Examples include the double helix in biology and the fundamental equations of physics. New discoveries in science will continue to create a thousand new frontiers for those who still would adventure

#### Scientific Board

#### **Editorial Team**

#### **Editor in Chief**

Professor Dr Muhammad Aqeel Ashraf School of Environmental Studies China University of Geosciences, Wuhan, China

#### **Editorial Board Members**

Dr. Khaled S. Balkhair Department of Hydrology and Water Resources Management King Abdulaziz University, Jeddah, Saudi Arabia

Dr. Sudhir Kumar Singh K. Banerjee Centre of Atmospheric & Ocean Studies, IIDS,Nehru Science Centre, University of Allahabad Uttar Pradesh, India

Dr Cosmas Parwada Faculty of Agriculture, Department of Agricultural Management, Matabeleland North Regional Campus, Zimbabwe Open University.

Ts. Dr. Roslinda Binti Ali Faculty of Engineering Technology & Department of Civil Engineering Technology University Tun Hussein Onn Malaysia (UTHM) Batu Pahat, Johor Malaysia

Dr. Manzoor Ahmed Sanjrani HANDS-Institute of Development Studies, Karachi, Pakistan

Dr. Ulakpa Eyankware Oghenerukevwe Ruth 4 Esther Odu Street off Okpanam road Asaba, Delta State Nigeria. Nigeria Maritime University Okerenkoko , Warri South West, Delta State Nigeria

Dr. Haroon Rashid PhD Civil Engineering (Japan) Department of Structures & Environmental Engineering University of Agriculture, Faisalabad, Pakistan Shakira Mukhtar Department of Environmental Sciences, Fatima Jinnah Women University, Rawalpindi, Pakistan

Dr. Ch. Arslan Assistant Professor, Department of Structures and Environmental Engineering, UAF