



## Journal of Wastes and Biomass Management (JWBM)

### 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 B Mohd Nizam

### **Frequency:**

Bi-annual (2 issue per year)

ISSN: 2710-6012 (Online)

### **Price:**

Single issue: 50 MYR

Price for abroad

Single issue: 25 USD

### **Web:**

[www.jwbm.com.my](http://www.jwbm.com.my)

### **E-mail:**

[info@zibelinepub.com](mailto:info@zibelinepub.com)

## Contents

VOLUME 4, ISSUE 1, 2022		
No	Editorial	Pages
1	EFFECT OF DIFFERENT BIOCHAR CONCENTRATION ON THE GROWTH OF THREE AGRICULTURAL PLANTS IN AFGHANISTAN	01-07
2	SUSTAINABLE PLANTATION FOR RECLAMATION OF MUNICIPAL SOLID WASTE DISPOSAL SITE: A CASE STUDY	08-13
3	THE UTILIZATION OF BIO-ADSORBENTS FOR REMOVAL OF TEXTILE DYE (INDIGO CARMINE) AT AQUEOUS SOLUTION	14-20
4	ENHANCEMENT OF BIOGAS PRODUCTION FROM ANAEROBIC CO-DIGESTION OF WASTEWATER SLUDGE, KITCHEN WASTE AND MANURE	21-25
5	EFFICIENT AND ECO-FRIENDLY MANAGEMENT OF DIFFERENT TYPES OF SOLID WASTE USING WINDROW COMPOSTING TECHNIQUE AND EFFECT OF SEWAGE AS ADDITIVE ON PHYSICO-CHEMICAL CHARACTERISTICS OF COMPOSTS	26-31
6	ENVIRONMENTAL, SOCIAL AND ECONOMIC IMPACTS OF 'BRIQUETTING PLANT AND BRIQUETTES'	32-40
7	VERMICOMPOST WITH CHEMICAL FERTILIZERS IMPACT ON GROUNDNUT YIELD AND SOIL FERTILITY IN CHARLAND	41-44
8	THE SHORT TERM EFFECT OF TILLAGE SYSTEM ON SOIL MOISTURE RETENTION IN BAYELSA STATE, NIGERIA	45-52
9	GROWTH, YIELD AND QUALITY SEED PRODUCTION OF ONION RESPONSE TO MULCHING AND VARIETIES	53-58

## Editorial

Wastes & Biomass Management Journal is devoted to the presentation and discussion of information on solid waste generation, characterization, minimization, collection, separation, treatment and disposal, as well as manuscripts that address waste management policy, education, and economic and environmental assessments. The journal addresses various types of solid and biomass wastes including municipal (e.g., residential, institutional, commercial), agricultural and special (e.g. construction and demolition, household hazardous, sewage sludge, and non-hazardous industrial) wastes

## Scientific Board

### Editorial Team

#### Editor in Chief

Asst. Prof. Ts. Dr. Mohd Armi Abu Samah  
International Islamic University Malaysia

#### Editorial Board

Assoc. Prof. Dr. Dang Vu Bich Hanh  
Ho Chi Minh City University of Technology

Prof. Ir. Dr. Mohd. Fadhil Md. Din  
Universiti Teknologi Malaysia

Assoc. Prof. Dr. Ts. Dr. Mohd Khairul Amri Kamarudin  
Universiti Sultan Zainal Abidin

Dr. Mohammad Adam Adman  
Universiti Malaysia Pahang

Dr. Siti Rohana Mohd Yatim  
Universiti Teknologi Mara

Dr. Afiza Abdullah Suhaimi  
Universiti Malaysia Pahang

Dr. Abdul Latif Abdul Rani  
Universiti Malaysia Perlis