

## Acta Chemica Malaysia (ACMY)

**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: 2576-6724 (Print)

ISSN: 2576-6732 (Online)

**Price:**

Single issue: 50 MYR

Price for abroad

Single issue: 25 USD

**Web:**

[www.actachemicamalaysia.com](http://www.actachemicamalaysia.com)

**E-mail:**

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

## Contents

VOLUME 6, ISSUE 2, 2022		
No	Editorial	Pages
1	ENERGY BALANCE, MATERIAL BALANCE AND COST BENEFIT ANALYSIS FOR THE PRODUCTION OF BIOETHANOL FROM NON-FOOD PARTS OF BITTER CASSAVA	48-55
2	ENHANCEMENT OF THE GASES YIELD DISTRIBUTION USING MODIFIED ZEOLITE ON THERMO-CRACKING POLYETHYLENE WASTE	56-61
3	EXPERIMENTAL INVESTIGATION ON THE CORROSION INHIBITION CHARACTERISTICS OF 4, 4' (1,2 ETHANEDIYLDINITRILO)-BIS-(2-PENTANONE) ON MILD STEEL USING SULPHRIC ACID	62-68
4	PRODUCTION AND CHARACTERIZATION OF BIO-BRIQUETTES FROM BIOCHAR DERIVED PYROLYSIS OF RICE HUSK	69-74
5	EQUILIBRIUM, KINETIC AND MASS TRANSFER OPTIMIZATION STUDIES OF CATIONIC DYE ADSORPTION ONTO CHEMICALLY MODIFIED BIO-SORBENT DERIVED FROM LIGNOCELLULOSIC WASTE	75-84
6	IN-VITRO STUDY OF HYDROGEL FOR DICLOFENAC POTASSIUM RELEASE	85-93
7	DEVELOPMENT OF UV-SPECTROSCOPY METHOD FOR DETERMINATION OF HYDROQUINONE & CLOBETASOL IN SKIN -LIGHTENING CREAMS IN ADEN, YEMEN	94-99
8	APPLICATION OF CO <sub>3</sub> (BTC) <sub>2</sub> ·12H <sub>2</sub> O AS A METAL-ORGANIC FRAMEWORK IN CONTROLLED UPTAKE-RELEASE OF OXALIPLATIN	100-105

## Editorial

Due to rapid advances in scientific research and industrialization, there is more need of advanced and durable study in chemistry and chemical engineering field. Acta Chemica Malaysia (ACMY) is an open access as well as print journal and widely covers all branches of chemistry and chemical engineering. It provides a medium for mutual communication between the academia and the industry all over the world. The Journal welcomes original research articles; research notes or short communications and topical or interpretative review articles (previously unpublished) in all established areas of chemistry, chemical engineering and related fields in English Language.

## Scientific Board

### Editorial Team

#### Editor in Chief

Dr-Muhammad Rehan Hasan  
Department of Chemistry  
Government College University Faisalabad  
Layyah Campus, Layyah  
Pakistan

#### Associate Editors

Prof. Dr Karamat Mahmood  
Department of Chemistry  
The Islamia University of Bahawalpur  
Pakistan

#### Editorial Board

Engr. Prof. Mike Agbesi Acheampong  
Pro Vice-Chancellor  
Kumasi Technical University,  
Kumasi-Ghana

Dr Ahmed Kaleem Qureshi  
Department of Chemistry  
The Islamia University of Bahawalpur  
Pakistan

Dr. Mahendra Aryal  
Tri-Chandra College, Ghantaghar,  
Kathmandu, Nepal

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

Dr Farah Talpur  
Centre of Excellence in Analytical Chemistry  
Sindh University Jamshoro  
Pakistan