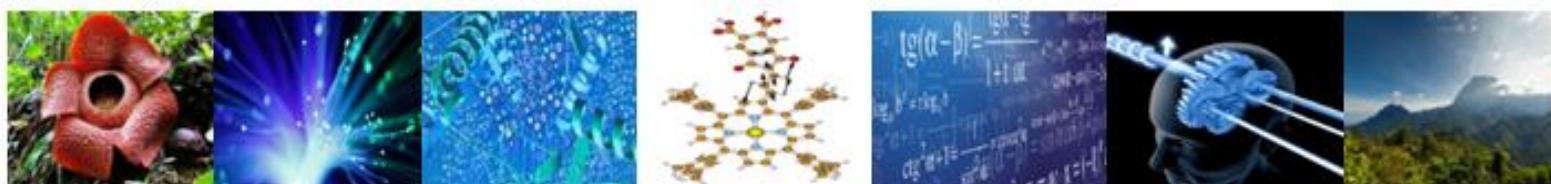


# **TRANSACTIONS ON SCIENCE AND TECHNOLOGY**



**Volume 10 Issue No 2  
June 2023**



**ISSN 2289-8786 (online)**

# Transactions on Science and Technology

Volume 10, Issue Number 2, June 2023

E-ISSN: 2289-8786

## *Editors-in-Chief*

**Jedol Dayou**

*Energy, Vibration and Sound Research Group (e-VIBS),  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.  
jed[at]jums.edu.my*

**Khim Phin Chong (Special Issue)**

*Biotechnology Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.  
chongkp[at]jums.edu.my*

## *Managing Editor*

**Fui Pien Chee**

*Energy, Vibration and Sound Research Group (e-VIBS),  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.  
fpchee06[at]jums.edu.my*

**Asmahani Awang**

*Energy, Vibration and Sound Research Group (e-VIBS),  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.  
asmahani\_awang[at]jums.edu.my*

## *Editorial Board*

**Aini Janteng**

*Mathematics with Economics Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Andy Russel Immit Mojol**

*Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Chong Mun Ho**

*Mathematics with Economics Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Coswald Stephen Sipaut @ Mohd Nasri**

*Chemical Engineering Programme,  
Faculty of Engineering,  
Universiti Malaysia Sabah.*

**Ismail Jusoh**

*Faculty of Resource Science and Technology,  
Universiti Malaysia Sarawak.*

**Jidon Adrian Janaun**

*Chemical Engineering Programme,  
Faculty of Engineering,  
Universiti Malaysia Sabah.*

**Jualang Azlan Gansau**

*Biotechnology Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Ko Ying Hao**

*Department of Mechanical Engineering,  
Faculty of Engineering and Built Environment,  
Tunku Abdul Rahman University College.*

**Leong Wan Vun**

*Environmental Science Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Moh Kamel Wan Ibrahim**

*Mechanical Engineering Programme,  
Faculty of Engineering,  
Universiti Malaysia Sabah.*

**Moh Pak Yan**

*Industrial Chemistry Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Noumie Surugau**

*Industrial Chemistry Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Ping Chin Lee**

*Biotechnology Programme,  
Faculty of Science and Natural Resources,  
Universiti Malaysia Sabah.*

**Rachel Fran Mansa**

*Chemical Engineering Programme,  
Faculty of Engineering,  
Universiti Malaysia Sabah.*

**Raseetha Vani Siva Manikam**

*Faculty of Applied Sciences,  
Universiti Teknologi MARA Shah Alam.*

**Sebastian Dayou**

*School of Engineering & Technology,  
University College of Technology Sarawak.*

**Thomas Moh Shan Yau**

*School of Engineering & Technology,  
University College of Technology Sarawak.*

**Yeong Sheng Tey**

*Institute of Agricultural and Food Policy Studies,  
Universiti Putra Malaysia.*

## *International Editorial Board*

**Baba Musta**

*Universiti Malaysia Sabah, Sabah, Malaysia*

**Cesar G. Demayo**

*Mindanao State University-Iligan Institute of Technology,  
Philippines*

**Francisco Nuñez De Caceres**

*Universidad Autonoma del Estado de Hidalgo, Mexico*

**Mariam Gaidamashvili**

*Iv. Javakhishvili Tbilisi State University, Georgia*

**Patricia Anthony**

*Lincoln University, New Zealand*

## *Associate Editor*

**Jackson Chang, Malaysia**

## *Associate Editors (Special Issue)*

**Arnytite Alexander**

*Malaysia*

**Syahriel Abdullah**

*Malaysia*

African Continent Section

*Editor-in-Chief*

**Gbenga Festus Akomolafe**, *Federal University of Lafia, Nigeria.*  
*gbenga.akomolafe[at]science.fulafia.edu.ng*

*Editorial Board*

**Terna Tersoo Paul**      **Akwashiki Ombugadu**  
*Federal University of Lafia, Nigeria*      *Federal University of Lafia, Nigeria*

**Transactions on Science and Technology****Volume 10, Issue Number 2, June 2023*****Table of Contents***

<i>Rizqi Elmuna Hidayah; Suzani Mohamad Samuri</i>	48	<b>Detection of rubber (<i>Hevea brasiliensis</i>) leaf diseases using image processing techniques</b>
<i>Esther Solomon Mshelia; Abdullahi Abubakar Biu; ThankGod Emmanuel Onyiche</i>	54	<b>Prevalence of parasitic infections of horses in Maiduguri, Nigeria</b>
<i>Jesleen Linus Dani; Andy Russel Mojiol; Nurliza Hasmat; Colin Goh; Paul Liau</i>	59	<b>Evaluation of potential ornamental plants in Sg. Rawog Conservation Area, Sandakan, Sabah and it's conservation status</b>
<i>Akwashiki Ombugadu; Ishaya Jeremiah; James I. Maikenti; Hasley L. Njila; Samson A. Da'an; Sylvester A. Attah; Mock S. Kure; Victoria A. Pam; Cyril D. Nkup; Sunday K. Dogo</i>	65	<b>Composition of <i>Bufo</i> species and their diets in Peri-Urban area of Lafia Metropolis, Nasarawa State, Nigeria</b>