

**Journal
of
Biodiversity Conservation
and Bioresource Management**

J. biodivers. conserv. bioresour. manag.

Vol. 7(2)

**This publication is indexed and abstracted in:
Biological Abstracts, BIOSIS Previews and Zoological Record**

- Fourteenth Issue** : December, 2021
- Copyright© 2021** : Biodiversity Conservation Trust Foundation (BCTF).
All rights reserved. No part of the publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the Editor-in-Chief.
- Published by** : Biodiversity Conservation Trust Foundation (BCTF)
c/o- EBBL, Department of Zoology,
University of Dhaka, Dhaka-1000, Bangladesh
E-mail: bctfbd@gmail.com
- ISSN** : 2412-2416 (print)
2957-532X (online)
- Cover design** : Eftesum
- Compose** : Md. Ashek Kabir Chowdhury, Dr. Shahanaz Rahman,
Kritee Chowdhury
- Proof readers** : Prof. H. R. Khan, Md. Ashek Kabir Chowdhury
- Available at** : EBBL, Department of Zoology, University of Dhaka,
Dhaka-1000, Bangladesh
- Price** : BDT 600.00
: US \$ 50.00
: Euro 40.00
- Printed in Bangladesh** : Sarker Printers
15 Nilkhet Babupura, Katabon Dhal
Dhaka-1205, Bangladesh
E-mail: sjahansarker@gmail.com

BIODIVERSITY CONSERVATION TRUST FOUNDATION (BCTF)

Founder: Dr. M. A. Bashar

JBCBM Advisory Board

Prof. Dr. Abu Hassan Ahmad, University Sains Malaysia, Malaysia	Prof. Dr. Marc Jarry, IBEAS, University of PAU, France
Prof. Dr. A. R. Shakoori, University of the Punjab, Pakistan	Dr. Gerard Fabres, Rue Principale, 32160, Tasque, France
Prof. Dr. Z. N. Tahmida Begum, University of Dhaka, Bangladesh	Prof. Dr. Sankar K. Ghosh (VC) University of Kalyani, WB, India
Prof. Dr. Musharraf Hossain Mian (Ex. VC), Bangladesh Agricultural University, Bangladesh	Prof. M. A. Halim Khan (Ex. VC), BSMRKB, Bangladesh
Prof. Dr. Samiran Chakrabarti, University of Kalyani, India	Prof. Dr. Susanta Kumar Chakraborty Vidyasagar University, India
Prof. Dr. M. Nurul Islam (Ex. VC), Mawlana Bhashani S & T University, Bangladesh	Prof. Dr. A. T. A. Ahmed, University of Dhaka, Bangladesh
Prof. Dr. Pramod Kumar Jha, Tribhuvan University, Nepal	Prof. Dr. Shahadat Hossain Mondal, University of Rajshahi, Bangladesh
Prof. Dr. Noor Jahan Sarker, University of Dhaka, Bangladesh	Prof. Dr. Ahmed Mustafa, Purdue University, Fort Wayne, USA
Prof. Dr. Yearul Kabir, University of Dhaka, Bangladesh	Prof. Dr. Mahfuzul Hoque University of Dhaka, Bangladesh
Dr. F. H. Ansarey, Managing Director & CEO, ACI Agribusiness, ACI Limited, Bangladesh	Prof. Dr. Badrul Amin Bhuiya, University of Chittagong, Bangladesh
Prof. Dr. M. Niamul Naser, University of Dhaka, Bangladesh	

Editorial Board

Prof. Dr. M. A. Bashar — Editor-in-Chief

Prof. H. R. Khan — Executive Editor

Members

Prof. Dr. R. M. Shahjahan Department of Zoology, University of Dhaka	Prof. Dr. A. R. Mollah Department of Zoology, University of Dhaka
Prof. Dr. M. A. Bashar Department of Botany, University of Dhaka	Prof. Dr. M. A. A. Akhand Department of Genetic Engineering and Biotechnology, University of Dhaka
Prof. Dr. S. Hoque Department of Soil, Water & Environment, University of Dhaka	Prof. Dr. M. S. Alam Department of Zoology, University of Dhaka

Ex-officio member: Dr. Most. Sajeda Akand, BCTF Representative

The Journal

In today's world, one of the most concerned issues to humans is the biodiversity protection. The management of biodiversity conservation is the greatest challenge for human civilization on the planet now. Unfortunately, the term is not well recognized yet to the people at its optimum use. Biodiversity is a complex concept referring to the variety of living entities on the planet in association with their surroundings. The conceptual abstract encompasses three basic components of biodiversity, namely ecosystem diversity, species diversity and genetic diversity. Biodiversity embraces proper distribution and sustainable management of bioresources, analysis of ecosystem services and assurance of conserving genetic resources. The components are inter-linked; biodiversity conservation needs conservation of the linkage through proper researches in the field. Through the integration with diverse disciplines, biodiversity carries priceless contributions in different horizons, such as poverty, food security, livestock, fisheries, forest, wildlife, transport sector, trade policy, ecotourism, human health etc. of our life. Immense implications of biodiversity in economic as well as environmental aspects are truly inevitable. When the precious values of biodiversity in various aspects often remain unjustified behind our vision and beyond our perception then bioresource key-element assessment might be performed by aiming to optimize and evaluate the efforts on researches delivered by the biodiversity researchers. An opportunity for sharing would be created through launching such a new journal to document the researches. It will promote the sharing of ideas on utilization, reliability and sustainable use of bioresources among the researchers through enhancing network and communication in a scholastic way. Focusing the aim, it stands necessary now to express towards the world about the necessity of biodiversity, value of biodiversity, protection and conservation of biodiversity. Our aim is to reach the goal by materializing the following tasks:

- *To focus researches on biodiversity, conservation of biodiversity and management of bioresources at local as well as global levels;*
- *To accommodate outcomes of researches through collaboration and cooperation among the organizations of various disciplines at national and international levels;*
- *To select key words in the field of biodiversity and bioresource management following a technique by going through the journal; examples would be stated as waste-product management, colonization, butterfly colonization, synchronization of coincidences (temporal and spatial) of biotic factors, biotic epicentre, identification of bioresources, bioresource managements, etc.;*
- *To enhance quality of writings as well as inspiring researchers to deliver their optimum efforts towards researches in the field of biodiversity and bioresource management;*
- *To encourage the researchers in the above disciplines towards the management of human resources also in the society.*

Considering the immense importance of biodiversity, we intended to launch a scientific research based new journal "***Journal of Biodiversity Conservation and Bioresource Management***" as the spokesman of biodiversity. This was aimed towards the documentation of researches on biodiversity and related fields. The Biodiversity Conservation Trust Foundation (BCTF) intends to take responsibility for bringing the journal to light and we hope that it will fulfill the aspiration of biodiversity researchers. It will commence an open access for implementing strategies to publicize the research findings to the people. This shall create and raise awareness among general mass to make them 'realized' the practicality of the roles of biodiversity and bioresources in their daily life.

JBCBM deals with all plants and animals considering them as bioresources from bimodal (two ways of doing things) ideas. Firstly, plants and animals in different forms are the wealth and resources for the humans. Secondly, these are the vital tools to use as the sources to keep the environment sound on the planet. Technique-innovations on utilization of the bioresources should be the stand point of researches in the field of bioresources management. The JBCBM attempts to advance in the line. By December 2021, the JBCBM has published 14 issues in 7 volumes very successfully starting from 2015. We gratefully appreciate any kind of modifications, suggestions and support from different sources to enhance the standard and volumes of the JBCBM.

**Journal
of
Biodiversity Conservation
and Bioresource Management**

J. biodivers. conserv. bioresour. manag.

Vol. 7(2), 2021

CONTENTS

- Ankhy, R. S., S. J. Proma, N. Ahsan, F. Jeba, M. S. Islam and A. Salam** - Multi-drugs resistant bacteria associated particulate matter in the ambient atmosphere of Dhaka, Bangladesh 1
DOI: <https://doi.org/10.3329/jcbm.v7i2.60145>
- Rikza, I. J., K. N. Nishi and M. K. Rahman** - Growth and yield performance of green capsicum (*Capsicum annuum* L.) as influenced by vermicompost application grown at rooftop of Chandpur area 13
DOI: <https://doi.org/10.3329/jcbm.v7i2.60146>
- Wilbert, A. A. and R. J. P. Lagrosa** - Distribution and diversity patterns of Amphibian species in the Rajah Sikatuna Protected Landscape, Bohol, Philippines 23
DOI: <https://doi.org/10.3329/jcbm.v7i2.60147>
- Mesfek, F., Z. Fortas and S. Dib** - Inventory and ecology of macrofungi and plants in a northwestern Algerian forest 33
DOI: <https://doi.org/10.3329/jcbm.v7i2.60148>
- Begum, M., M. N. Gani and M. D. Alam** - Effect of textile effluent on dry matter yield and nutrient content of Jute leaves (*Corchorus capsularis*) 47
DOI: <https://doi.org/10.3329/jcbm.v7i2.60149>
- Aissa, B. H. and M. Adel** - Feeding behaviour of a *Testudo graeca whitei* population in Mergueb Nature Reserve, Algeria 55
DOI: <https://doi.org/10.3329/jcbm.v7i2.60150>
- Shome, A. R. and M. F. Jaman** - Diversity and seasonal occurrence of vertebrate wildlife at a rural site of Bangladesh: threats and conservation issue 61
DOI: <https://doi.org/10.3329/jcbm.v7i2.60151>
- Zaman, H., S. J. H. Suchi, N. Tabassum and M. K. Rahman** - Response of growth, biomass production and nutrient uptake of red amaranth (*Amaranthus tricolor* L.) to various organic manures and chemical fertilizers 73
DOI: <https://doi.org/10.3329/jcbm.v7i2.60152>
- Hossain, M. K., M. A. Hossain and G. N. T. Hasnat** - Conservation of natural resources and biodiversity management in Bandarban, Bangladesh 83
DOI: <https://doi.org/10.3329/jcbm.v7i2.60153>