THE ASIATIC SOCIETY OF BANGLADESH

EDITORIAL BOARD
2018 and 2019

Chairperson : Professor Md. Harunor Rashid Khan
Editor : Professor Md. Shafiqur Rahman
Associate Editor : Professor Amal K. Halder
Members : Professor Hafiza Khatun
Professor Md. Abdul Karim
Professor Dr. M.K.I. Quayyum Choudhury

*Journal of the Asiatic Society of Bangladesh, Science* is published twice a year (June and December comprising one volume) in English. Original research papers dealing with all branches of science with special reference to Asiatic studies by the members of the Society are published. Any non-member of the Society may publish a research paper if it is communicated by a member of the Society.

**SUBSCRIPTION**

<table>
<thead>
<tr>
<th></th>
<th>Annual per volume</th>
<th>Single issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland</td>
<td>Tk. 500.00</td>
<td>Tk. 250.00</td>
</tr>
<tr>
<td>Foreign</td>
<td>US$ 40.00</td>
<td>US$ 20.00</td>
</tr>
</tbody>
</table>

**CORRESPONDENCE**

All correspondence should be addressed to The General Secretary, The Asiatic Society of Bangladesh, 5 Old Secretariat Road (Nimtali), Ramna, Dhaka-1000, Bangladesh. Phone : 9576391, E-mail : asiaticsociety.bd@gmail.com, www.asiaticsociety.org.bd

**PUBLISHED BY**
The Asiatic Society of Bangladesh

**PRINTED BY**
SRI Printing Press
8/12 Babupura, Nilkhet, Dhaka-1205
CONTENTS


117-125  YIELD AND BIOCHEMICAL ATTRIBUTES OF BRRI DHAN-44 (ORYZA SATIVA L.) AS AFFECTED BY TIBA APPLICATION – A. M. M. Golam Adam, Rasedul Islam and Hasna Hena Begum

127-136  MIGRANT COMMUNITY OF NJIJUM DWIP: COMPARATIVE IMPORTANCE OF LIVELIHOOD CAPITALS TO ADAPT IN THIS ISLAND – Amit Kumar and Sabnam Sarmin Luna

137-148  DELINEATING THE SERVICE AREA OF CYCLONE SHELTER AND VULNERABLE HOUSEHOLDS USING NETWORK ANALYST TOOL: A CASE STUDY ON SOUTHKHALI UNION OF BAGERHAT DISTRICT, BANGLADESH – Khandaker Tanvir Hossain and Md. Hafizur Rahman

149-158  AN ANNOTATED AVIFAUNAL CHECKLIST OF THE SAINT MARTIN’S ISLAND OF BANGLADESH – Irin Sultana, Shayer Mahmood Ibney Alam and Delip K. Das

159-171  CHARACTERIZATION OF POND WATER CHEMISTRY AND ITS POTABILITY STATUS AT SOUTH-WEST COASTAL REGION OF BANGLADESH – S K Saha, Aminur Rahman and Krishna Rani Barai

173-183  IMPACTS OF RICE HULL AND PISTIA ON THE VEGETATIVE GROWTH OF RICE AND PHYSICO-CHEMICAL PROPERTIES OF SALINE SOIL UNDER VARIABLE MOISTURES – Mohammed Sadid Hossain, Md. Harunor Rashid Khan, Suma Akter, Mithun Kumar Saha and Fariha Farzana


195-210  COMPARATIVE STUDY OF THE CHANGES IN CLIMATIC CONDITION AND SEASONAL DROUGHT IN NORTH-WESTERN PART OF BANGLADESH – Riaz Hossain Khan and Mohammad Saiful Islam

211-224  ASSESSMENT OF FLOOD RISK IN THE EASTERN PART OF JAMUNA FLOODPLAIN – Maruf Billah and Mehedi Ahmed Ansary
THE ASIATIC SOCIETY OF BANGLADESH
Council 2018 & 2019

President: Professor Mahfuza Khanam
Vice-Presidents: Professor Mesbah-us-Saleheen
Professor Ahmed Abdullah Jamal
Professor Md. Harunor Rashid Khan
Treasurer: Professor Sajahan Miah
General Secretary: Dr. Sabbir Ahmed
Secretary: Mr. Md. Abdur Rahim
Members: Mr. Ahmad Rafique (Fellow)
Professor Jamilur Reza Choudhury (Fellow)
Professor M. Delwar Hussain
Professor Najma Khan Majlis
Professor S. M. Mahfuzur Rahman
Dr. Muhammad Abdul Mazid
Professor Syed Rashidul Hasan
Professor Dulal Bhowmik
Professor Hafiza Khatun
Professor Syed Azizul Huq
Professor Asha Islam Nayeem
Professor Md. Abdul Karim
Guidelines to authors

The Journal of the Asiatic Society of Bangladesh publishes original research papers related to any field of sciences from anywhere in the world.

All manuscripts written in English and typed on one side of a good quality paper (A4) with one and a half space and 2.54 cm margins on all sides should be submitted in duplicate (one copy without identity of the authors) to the Editor. However, authors from overseas countries may submit soft copy of the paper. Regarding publication of the paper after review, the decision of the Editorial Board shall be final. All papers accepted by the Editorial Board are subjected to editorial modifications.

The manuscript of a full paper, preferably be limited within 12 typed pages (A4) including tables, figures, graphs, references, etc. For short communication it should not exceed five pages.

The manuscript should contain the following sub-titles in sequence: Title, Abstract, Key words, Introduction, Materials and Methods, Results and Discussion, Acknowledgements, if any, and References. In case of ‘Short Communication’ no sub-titles are necessary.

Title: It should be brief and specific. The manuscript will have a separate title page giving name of the paper, authors name and address and a running head.

Abstract: It should not exceed 200 words containing the gist of results only.

Key words: Should not exceed 6 words and it should be after Abstract.

Text: The text of the article should be clear and precise. Introduction should be concise, precise and relevant to the study. Methods already published should be indicated by references. In case of modifications of a method give explicit descriptions. Results should be stated concisely and presented logically referring to tables and graphs. The same data should not be used both for the tables and for the graphs and/or figures. Simple data may be presented as a text instead of Tables and Figs. Each result should be followed by discussion or interpretation (in any case the Results and Discussion must not be separated) with appropriate reference(s). Discussion should deal with the obtained results and related results published nationally and internationally. Concluding remarks (without heading) must be given (that tally with the objective) in the last paragraph. The references in the text should be arranged chronologically.

Units: All measurements must be given in SI (International System) or SI-derived units.

Tables, Graphs and Figures: Number of tables, graphs and figures should be minimum. However, these should be typed separately. The graphs and figures should be drawn giving statistical analysis and properly labelled. The figures and graphs should be properly drawn with bold, solid lines so that these could be reduced up to half or less of the original. The photographs should be submitted on glossy papers or in JPEG format.
Symbols in the graphs should be distinct and labels should be readable. Coloured photographs are also accepted.

**References:** In the text, references should be cited within brackets quoting author's surname and the year of publication in the appropriate place e.g. (Alva and Edwards 1990, Kabir 2005 and Khan et al. 2008). References should be arranged alphabetically according to author's surname at the end of the paper. Names of journals and books should be in italics giving edition, year of publication and name of the publishers.

**Examples:**


The author(s) must submit one computer composed hard copy of the revised paper along with the CD in MS Word version 8.

Final galley proofs, if possible, will be sent to authors. No alternations or additions in the text are desirable at this stage.

**Off-prints**
A contributor of each paper is entitled to get 10 off-prints free of cost.

**Declaration**
While submitting a paper the individual authors are to sign a declaration to the effect that (i) the work reported has been carried out by them and they prepared the manuscript, (ii) they take public responsibility for the contents of the paper, (iii) the paper has not been published before in any referred scientific journal or has not been submitted to such journal for publication.

**Review of books**
Books for review should be sent to the Editor in duplicate.