FORESTIST

Official Journal of İstanbul University-Cerrahpaşa Faculty of Forestry

Formerly Journal of the Faculty of Forestry Istanbul University

EDITOR IN CHIEF
Murat Demir
Istanbul University-Cerrahpaşa, Faculty of Forestry, Istanbul, Turkey

ASSOCIATE EDITORS
Ender Makineci
Istanbul University-Cerrahpaşa, Faculty of Forestry, Istanbul, Turkey
Run-Cang Sun
College of Materials Science and Technology, Director, Beijing Key Laboratory of Lignocellulosic Chemistry, Beijing Forestry University, Beijing South China University of Technology, Guangzhou, China
Martin A. Hubbe
North Carolina State University, Department of Forest Biomaterials, United States

EDITORIAL BOARD
Abdullah Emin Akay
Bursa Technical University, Faculty of Forestry, Bursa, Turkey
Ünal Akkemik
Istanbul University-Cerrahpaşa, Faculty of Forest Botany Department, Istanbul, Turkey
M. Hakkı Alma
Rector, Iğdır University, Iğdır, Turkey
Kazuhiro Aruga
Utsunomiya University, Faculty of Agriculture, Department of Forest Science, Japan
Nadir Ayrılmış
Department of Wood Mechanics and Technology, Istanbul University-Cerrahpaşa, Faculty of Forestry, Istanbul, Turkey
Kevin Boston
Department of Forest Engineering, Resource Management, Oregon State University, College of Forestry, United States of America
Zeki Candan
Department of Forest Products Engineering, Faculty of Forestry, Istanbul University-Cerrahpaşa, Istanbul, Turkey
Ignacio J. Diaz-Maroto Hidalgo
University of Santiago de Compostela, Spain
Jürgen Huss
Albert-Ludwigs-Universität, Waldbau Institut, Standort und Vegetationkunde, Freiburg, Deutschland, Germany

Raphael Thomas Klumpp
University of Natural Resources and Life Sciences (BOKU), Department of Forest- and Soil Sciences, Institute of Silviculture, Vienna, Austria
Ignacio J. Diaz-Maroto Hidalgo
University of Santiago de Compostela, Spain
S. Nami Kartal
Istanbul University-Cerrahpaşa, Faculty of Forestry, Istanbul, Turkey
Lee Woo-Kyun
Division of Environmental Science and Ecological Engineering, College of Life and Environmental Sciences, Korea University in Seoul, Republic of Korea
Ender Makineci
Istanbul University-Cerrahpaşa, Faculty of Forestry, Istanbul, Turkey
Marc Palahi
European Forest Institute, Spain
Neil Pederson
Harvard Forest, Harvard University, United States of America
Tibor Pentek
University of Zagreb, Faculty of Forestry, Croatia
Yowhan Son
Division of Environmental Science and Ecological Engineering, Korea University, Republic of Korea
Yafang Yin
Chinese Academy of Forestry, Research Institute of Wood Industry, Deputy of IUFRO Unit 5.06.00 Properties and utilization of plantation wood, Beijing, China
Tetsuhiko Yoshimura
Shimane University Faculty of Life and Environmental Science, Japan

Contact
Address: Büyükdere Cad. No: 105/9 34394 Mecidiyeköy, Şişli, İstanbul
Phone: +90 212 217 17 00 Fax: +90 212 217 22 92
E-mail: info@avesyayincilik.com

Publisher
İbrahim KARA
Publication Director
Ali ŞAHİN
Editorial Development
Gizem KAYAN
Finance and Administration
Zeynep YAKIŞİRER ÜREN
Deputy Publication Director
Gökhan ÇİMEN
Publication Coordinators
Betül ÇİMEN
Özlem ÇAKMAK
Okan AYDOĞAN
İrem SOYSAL
Arzu YILDIRIM
Project Coordinators
Sinem KOZ
Doğan ORUÇ
Graphics Department
Ünal ÖZER
Deniz DURAN
Beyzanur KARABULUT
AIMS AND SCOPE

Forestist is an international, scientific, open access periodical published in accordance with independent, unbiased, and double-blinded peer-review principles. The journal is the official publication of İstanbul University-Cerrahpaşa Faculty of Forestry and continues publication since 1951. Forestist is published biannually on January and July and the publication language of the journal is English.

Forestist aims to contribute to the literature by publishing manuscripts at the highest scientific level on all fields of forestry. The journal publishes original articles, reviews, and brief notes that are prepared in accordance with the ethical guidelines.

The scope of the journal includes but not limited to; forest, forestry, forestry based industries, landscape and environment.

The target audience of the journal includes specialists and professionals working and interested in all disciplines of forestry.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

Forestist is currently indexed in Web of Science-Emerging Sources Citation Index, DOAJ, TUBITAK ULAKBIM TR Index, Gale, EBSCO Abstracts, CAB Direct, CABI Forestry Abstracts, CABI Forest Products Abstracts, CABI Environmental Science Database, CABI Horticultural Science Database, CABI Soil Science Database, CABI Soils and Fertilizers Abstracts, CABI Plant Genetics and Breeding Database, CABI Plant Genetic and Resources Abstracts, CABI Plant Protection Database, CABI Review of Agricultural Entomology.

All expenses of the journal are covered by the İstanbul University-Cerrahpaşa Faculty of Forestry. Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at www.forestist.org. The journal guidelines, technical information, and the required forms are available on the journal’s web page.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the İstanbul University-Cerrahpaşa Faculty of Forestry, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

Forestist is an open access publication and the journal’s publication model is based on Budapest Open Access Initiative (BOAI) declaration. Journal’s archive is available online, free of charge at www.forestist.org. Forestist’s content is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.
INSTRUCTIONS TO AUTHORS

Forestist is an international, scientific, open access periodical published in accordance with independent, unbiased, and double-blinded peer-review principles. The journal is the official publication of Istanbul University-Cerrahpaşa Faculty of Forestry and continues publication since 1951. Forestist is published biannually on January and July and the publication language of the journal is English.

Forestist aims to contribute to the literature by publishing manuscripts at the highest scientific level on all fields of forestry. The journal publishes original articles, reviews, and brief notes that are prepared in accordance with the ethical guidelines.

The scope of the journal includes but not limited to, forest, forestry, forestry based industries, landscape and environment.

The target audience of the journal includes specialists and professionals working and interested in all disciplines of forestry.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of) the Council of Science Editors (CSE), the Committee on Publication Ethics (COPE), the European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal conforms to the Principles of Transparency and Best Practice in Scholarly Publishing (https://doaj.org/bestpractice).

In addition to being accountable for the parts of the work he/she has done, an author should be able to identify which co-authors are responsible for specific other parts of the work. In addition, authors should have confidence in the integrity of the contributions of their co-authors.

If an article is written by more than one person, one of the co-authors should be chosen as the corresponding author for handling all the correspondences regarding the article. Before submission, all authors should agree on the order of the authors and provide their current affiliations and contact details. Corresponding author is responsible for ensuring the correctness of these information.

Forestist requires corresponding authors to submit a signed and scanned version of the Copyright Agreement and Acknowledgement of Authorship Form (available for download through www.forestist.org) during the initial submission process in order to act appropriately on authorship rights and to prevent ghost or honorary authorship. If the editorial board suspects a case of "gift authorship," the submission will be rejected without further review. As part of the submission of the manuscript, the corresponding author should also send a short statement declaring that he/she accepts to undertake all the responsibility for authorship during the submission and review stages of the manuscript.

In order to be submitted to the journal, manuscripts should be written in English and should comply with the submission guidelines. Manuscripts submitted to Forestist will go through a double-blind peer-review process. Each submission will be reviewed by at least two external, independent peer reviewers who are experts in their fields in order to ensure an unbiased evaluation process. The editorial board will invite an external and independent editor to manage the evaluation processes of manuscripts submitted by editors or by the editorial board members of the journal. The Editor in Chief is the final authority in the decision-making process for all submissions.

The authors are expected to submit researches that comply with the general ethical principles which include: scientific integrity, objectivity, collegiality, data integrity, institutional integrity and social responsibility.

Authorship

Being an author of a scientific article mainly indicates a person who has a significant contribution to the article and shares the responsibility and accountability of that article. To be defined as an author of a scientific article, researchers should fulfill below criteria:

- Making a significant contribution to the work in all or some of the following phases: Research conception or design, acquisition of data, analysis and interpretation.
- Drafting, writing or revising the manuscript.
- Agreeing on the final version of the manuscript and the journal which it will be submitted.
- Taking responsibility and accountability of the content of the article.

Outside the above mentioned authorship criteria, any other form of specific contribution should be stated in the Acknowledgement section.

In addition, all authors should fulfill below criteria:

- Taking responsibility and accountability of that article. To be defined as an author of a scientific article, researchers should fulfill below criteria:
- Agreeing on the final version of the manuscript and the journal which it will be submitted.
- Taking responsibility and accountability of the content of the article.

The authors are expected to submit researches that comply with the general ethical principles which include: scientific integrity, objectivity, collegiality, data integrity, institutional integrity and social responsibility.

Authorship

Being an author of a scientific article mainly indicates a person who has a significant contribution to the article and shares the responsibility and accountability of that article. To be defined as an author of a scientific article, researchers should fulfill below criteria:

- Making a significant contribution to the work in all or some of the following phases: Research conception or design, acquisition of data, analysis and interpretation.
- Drafting, writing or revising the manuscript.
- Agreeing on the final version of the manuscript and the journal which it will be submitted.
- Taking responsibility and accountability of the content of the article.

Outside the above mentioned authorship criteria, any other form of specific contribution should be stated in the Acknowledgement section.
The Editorial Board of the journal handles all appeal and complaint cases within the scope of COPE guidelines. In such cases, authors should get in direct contact with the editorial office regarding their appeals and complaints. When needed, an ombudsperson may be assigned to resolve cases that cannot be resolved internally. The Editor in Chief is the final authority in the decision-making process for all appeals and complaints.

Forestist requires each submission to be accompanied by a Copyright Agreement and Acknowledgement of Authorship Form (available for download at www.forestist.org). When using previously published content, including figures, tables, or any other material in both print and electronic formats, authors must obtain permission from the copyright holder. Legal, financial and criminal liabilities in this regard belong to the author(s). By signing the this form authors agree that the article, if accepted for publication by the Forestist, will be licensed under a Creative Commons Attribution-Non Commercial-NoDerivatives 4.0 International License (CC BY-NC-ND).

Statements or opinions expressed in the manuscripts published in Forestist reflect the views of the author(s) and not the opinions of the publisher, the editors, the editorial board, and the publisher disclaim any responsibility or liability for such materials. The final responsibility in regard to the published content rests with the authors.

MANUSCRIPT PREPARATION

Manuscripts can only be submitted through the journal's online manuscript submission and evaluation system, available at www.forestist.org. Manuscripts submitted via any other medium will not be evaluated.

Manuscripts submitted to the journal will first go through a technical evaluation process where the editorial office staff will ensure that the manuscript has been prepared and submitted in accordance with the journal’s guidelines. Submissions that do not conform to the journal’s guidelines will be returned to the submitting author with technical correction requests.

Authors are required to submit the following:
- Copyright Agreement and Acknowledgement of Authorship Form during the initial submission.
- These forms are available for download at www.forestist.org

Preparation of the Manuscript

Title page: A separate title page should be submitted with all submissions and this page should include:
- The full title of the manuscript as well as a short title (running head) of no more than 50 characters,
- Name(s), affiliations, highest academic degree(s), and ORCID ID(s) of the author(s),
- Grant information and detailed information on the other sources of support,
- Name, address, telephone (including the mobile phone number) and fax numbers, and email address of the corresponding author,
- Acknowledgment of the individuals who contributed to the preparation of the manuscript but who do not fulfil the authorship criteria.

Abstract: An English abstract should be submitted with all submissions. Submitting a Turkish abstract is not compulsory for international authors. Abstract section of all types of articles should be unstructured. Please check Table 1 below for word count specifications.

The style of abstract must be concise and must not contain references. The abstract should be prepared to summarize the following parts in an unstructured way:
- Aim of study: Set the goal or directly the specific objectives and, describe the relevance of the study;
- Study area: Specify the geographic area in which the study has been made;
- Material and methods: Describe briefly materials and methods, crops or organisms involved must be identified, as well as soil type, chemicals, or other details which can be important for the interpretation of the results;
- Main results: List and discuss relevant results (including numeric values of experimental results);
- Research highlights: One or two closing sentences with most relevant findings and implications.

Keywords: Each submission must be accompanied by a minimum of four to a maximum of six keywords for subject indexing. The keywords should be listed in full without abbreviations. Keywords should be written both in English at the end of the related abstract. The authors should not use the same words as the manuscript title.

Manuscript Types

Research Articles: This is the most important type of article since it provides new information based on original research. The main text of original articles should be structured with Introduction, Materials and Methods, Results and Discussion, and Conclusion subheadings. Please check Table 1 for the limitations for Research Articles.

Statistical analysis to support conclusions is usually necessary. Statistical analyses must be conducted in accordance with international statistical reporting standards. Information on statistical analyses should be provided with a separate subheading under the Materials and Methods section and the statistical software that was used during the process must be specified.

Units should be prepared in accordance with the International System of Units (SI).

Review Articles: Reviews prepared by authors who have extensive knowledge on a particular field and whose scientific background has been translated into a high volume of publications with a high citation potential are wel-
The reference styles for different types of publications should be provided. Journal titles should be written in italics and that have been published or accepted publications. If an ahead-of-print publication is cited, the DOI number should be provided. Authors are responsible for the accuracy of references. In the main text of the manuscript, references should be cited by author’s name and the publication year in parenthesis. When there are more than two authors, the first author should be listed followed by “et al.” Please see below for examples:

For single authored reference: (Clausen, 1992)

For double authored reference: (Kello and Smith, 1998)

For multiple authored reference: (Medsvec et al., 1999)

For multiple references, in order of year: (Lebow, 2000; Imamura, 2001; Cooper and Taylor, 2005)

For references with the same author and publication year: (Hill, 2000a; Hill, 2000b)

Reference List: The list of references should only include works that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished works should only be mentioned in the text. Do not use footnotes or endnotes as a substitute for a reference list. The references must be listed alphabetically according to the last name of the author. The names of the journals should be written in italics and volume numbers should be provided. Journal titles should not be abbreviated. The reference styles for different types of publications should be provided.

Tables: Tables should be included in the main document, presented after the reference list, and they should be numbered consecutively in the order they are referred to within the main text. A descriptive title must be placed above the tables. Abbreviations used in the tables should be defined below the tables by footnotes (even if they are defined within the main text). Tables should be created using the “insert table” command of the word processing software and they should be arranged clearly to provide easy reading. Data presented in the tables should not be a repetition of the data presented within the main text but should be supporting the main text.

Figures and Figure Legends: Figures, graphics, and photographs should be submitted as separate files (in TIFF or JPEG format) through the submission system. The files should not be embedded in a Word document or the main document. When there are figure sub-units, the subunits should not be merged to form a single image. Each subunit should be submitted separately through the submission system. Images should not be labeled (a, b, c, etc.) to indicate figure subunits. Thick and thin arrows, arrowheads, stars, asterisks, and similar marks can be used on the images to support figure legends. Like the rest of the submission, the figures too should be blind. Any information within the images that may indicate an individual or institution should be blinded. The minimum resolution of each submitted figure should be 300 DPI. To prevent delays in the evaluation process, all submitted figures should be clear in resolution and large in size (minimum dimensions: 100 x 100 mm). Figure legends should be listed at the end of the main document.

All acronyms and abbreviations used in the manuscript should be defined at first use, both in the abstract and in the main text. The abbreviation should be provided in parentheses following the definition.

Scientific plant and animal names should be written in italics in the main text.

When a product, hardware, or software program is mentioned within the main text, product information, including the name of the product, the producer of the product, and city and the country of the company (including the state if in USA), should be provided in parentheses in the following format: “EC meter (Orion Star A212, Thermo Scientific, MA, USA)”

For double authored reference: (Clausen, 1992)

For single authored reference: (Clausen, 1992)

For multiple authored reference: (Medsvec et al., 1999)

For multiple references, in order of year: (Lebow, 2000; Imamura, 2001; Cooper and Taylor, 2005)

For references with the same author and publication year: (Hill, 2000a; Hill, 2000b)

Reference List: The list of references should only include works that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished works should only be mentioned in the text. Do not use footnotes or endnotes as a substitute for a reference list. The references must be listed alphabetically according to the last name of the author. The names of the journals should be written in italics and volume numbers should be provided. Journal titles should not be abbreviated. The reference styles for different types of publications should be provided.

<table>
<thead>
<tr>
<th>Type of manuscript</th>
<th>Word limit</th>
<th>Abstract word limit</th>
<th>Reference limit</th>
<th>Table limit</th>
<th>Figure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Article</td>
<td>8000</td>
<td>250</td>
<td>40</td>
<td>8</td>
<td>7 or total of 15 images</td>
</tr>
<tr>
<td>Review Article</td>
<td>8000</td>
<td>250</td>
<td>60</td>
<td>8</td>
<td>10 or total of 20 images</td>
</tr>
<tr>
<td>Short Note</td>
<td>4000</td>
<td>200</td>
<td>20</td>
<td>8</td>
<td>10 or total of 20 images</td>
</tr>
</tbody>
</table>

Table 1. Limitations for each manuscript type
lications are presented in the following examples:


REVISIONS

When submitting a revised version of a paper, the author must submit a detailed “Response to the reviewers” that states point by point how each issue raised by the reviewers has been covered and where it can be found (each reviewer’s comment, followed by the author’s reply and line numbers where the changes have been made) as well as an annotated copy of the main document. Revised manuscripts must be submitted within 30 days from the date of the decision letter. If the revised version of the manuscript is not submitted within the allocated time, the revision option may be cancelled. If the submitting author(s) believe that additional time is required, they should request this extension before the initial 30-day period is over.

Accepted manuscripts are copy-edited for grammar, punctuation, and format. Once the publication process of a manuscript is completed, it is published online on the journal’s webpage as first online publication before it is included in its scheduled issue. A PDF proof of the accepted manuscript is sent to the corresponding author and their publication approval is requested within 2 days of their receipt of the proof.

Editor in Chief: Murat DEMİR
Address: İstanbul University-Cerrahpaşa Faculty of Forestry, Valide Sultan Cad. No:1, 34473 Bahçeköy, Sanyer, İstanbul, Turkey
Phone: +90 (212) 338 24 00 / 25289
E-mail: forestist@istanbul.edu.tr

Publisher: AVES
Address: Büyükdere Cad. 105/9 34394 Mecidiyeköy, Şişli, İstanbul, Turkey
Phone: +90 212 217 17 00
Fax: +90 212 217 22 92
E-mail: info@avesayinclik.com
www.avesayinclik.com
CONTENTS

ORIGINAL ARTICLES

1 Analysis of work accidents in wood harvesting: a case study of the East Black Sea region
   Selçuk Gümüş, Saliha Ünver Okan, Taha Yasin Hatay

8 Determining the effect of urbanization on the vegetation of Gürün district (Sivas) based on biotope
   mapping and vegetation analysis
   Selvinaz Gülçin Bozkurt, Ünal Akkemik, Nesibe Köse

19 Research on Surirella brebissonii as a biofuel alternative
   Ehsan Etesami, Mustafa Noroozi, Sarah Jorjani

28 Analysis of plant material in roadside landscapes: The Trabzon case
   Emine Tarakçı Eren, Tuğba Düzenli, Elif Merve Alpak

36 The corporate social responsibility perception and sustainable consumption behavior of the employees
   in forest products industry enterprises: the case of Western Black Sea section
   Hilal Öztay, Emre Birinci

44 Determination of land degradation according to land use types: a case study from the Gulf of Edremit,
   Turkey
   Çağan Alevkayalı, Şermin Tağıl

53 The effect of climate on the radial growth of Oriental Beech in the Southern limit of its distribution area
   Barbaros Yaman, Nesibe Köse, H. Barış Özel, Evrim A. Şahan

60 Conservation strategies for the Caucasus Viper, Vipera kaznakovi Nikolsky 1909, in the East Black Sea
   Region, Turkey
   Cemal Varol Tok, Murat Afsar, Kerim Çiçek