ALEXANDRIA ENGINEERING JOURNAL

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

- Description p.1
- Impact Factor p.1
- Abstracting and Indexing p.1
- Editorial Board p.1
- Guide for Authors p.5

DESCRIPTION

*Alexandria Engineering Journal* is an international journal devoted to publishing high quality papers in the field of engineering and applied science. *Alexandria Engineering Journal* is cited in the Engineering Information Services (EIS) and the Chemical Abstracts (CA). The papers published in *Alexandria Engineering Journal* are grouped into five sections, according to the following classification:

- Mechanical, Production, Marine and Textile Engineering
- Electrical Engineering, Computer Science and Nuclear Engineering
- Civil and Architecture Engineering
- Chemical Engineering and Applied Sciences
- Environmental Engineering

*Alexandria Engineering Journal* publishes original papers, critical reviews, technical papers, technical data, short notes, and letters to the editor. Papers covering experimental, theoretical, and computational aspects which contribute to the understanding of engineering and applied sciences or give an insight into engineering practices and processes are welcome. Authors from all over the world are invited to submit manuscripts for possible publications in *Alexandria Engineering Journal*.

For queries related to the journal, please contact magdy@alexu.edu.eg

IMPACT FACTOR

2019: 2.460 © Clarivate Analytics Journal Citation Reports 2020

ABSTRACTING AND INDEXING

Science Citation Index Expanded
Directory of Open Access Journals (DOAJ)
Ei Compendex
INSPEC

EDITORIAL BOARD

*Editor-in-Chief*
Magdy Abd-Elazim Ahmed, Alexandria University, Department of Computer Engineering, Alexandria, Egypt
Co Editors-in-Chief
Wael M. El-Maghlany, Alexandria University Department of Mechanical Engineering, Alexandria, Egypt
Mohammad Mehdi Rashidi, Tongji University, Shanghai, China
Mahmoud Abdel-Aty, Sohag University, Department of Mathematics, Sohag, Egypt
Muhammad Aslam Noor, COMSATS University Islamabad, Islamabad, Pakistan
Mostafa Hussein Aly, Arab Academy for Science Technology and Maritime Transport, Alexandria, Egypt
Shahid Mumtaz, Institute for Telecommunications, Lisboa, Portugal
Ayman Samy Abdel-Khalik, Alexandria University Department of Electrical Engineering, Alexandria, Egypt
Khaled Ahmed, University of Strathclyde Department of Electronic and Electrical Engineering, Glasgow, United Kingdom

Executive Editor
Ayman Samy Abdel-Khalik, Alexandria University Department of Electrical Engineering, Alexandria, Egypt

Associate Editors
Sherwet Gholmy, Alexandria University Department of Textile Engineering, Egypt
Ioana Piscu, Brunel University London, United Kingdom

Electrical Engineering
Ahmed E Abu Elanien, Alexandria University, Alexandria, Egypt
Hang Seng Che, University of Malaya UM Power Energy Dedicated Advanced Centre (UMPEDAC), Kuala Lumpur, Malaysia
Jia Hongjie, Tianjin University School of Electrical Engineering and Automation, Tianjin, China
Mohamed Ali Yousif Abido, King Fahd University of Petroleum & Minerals Electrical Engineering Department, Al Dhahran, Saudi Arabia
Attia El-Fergany, Zagazig University, Zagazig, Egypt
Jorge Esteban Rodas Benitez, National University of Asuncion Faculty of Engineering, San Lorenzo, Paraguay
Maher Azzouz, University of Windsor Department of Electrical and Computer Engineering, Windsor, Ontario, Canada
Tao Jiang, Northeast Electric Power University, Jilin, China
Yunfei Mu, Tianjin University School of Electrical and Automation, Tianjin, China
Tan Chia Kwang, University of Malaya UM Power Energy Dedicated Advanced Centre (UMPEDAC), Kuala Lumpur, Malaysia
Mahdi Tousizadeh, University of Malaya UM Power Energy Dedicated Advanced Centre (UMPEDAC), Kuala Lumpur, Malaysia
Raul Igmar Gregor, National University of Asuncion Faculty of Engineering, San Lorenzo, Paraguay
Diaa-Eldin Mansour, Tanta University Department of Electrical Power and Machines Engineering, Tanta, Egypt
Umashankar Subramanian, Prince Sultan University, Riyadh, Saudi Arabia

Communications Engineering
Aboelmagd Noureldin, Queen's University School of Computing, Kingston, Ontario, Canada
Jimming Wen, Jinan University College of Information Science and Technology, Jinan, China
Rahat Iqbal, Coventry University, Faculty of Engineering, Environment & Computing, School of Computing, Electronics and Maths, England, United Kingdom
Qin Zhou, Wuhan Donghu University School of Electronics and Information Engineering, Wuhan, China
Kwok L. Chung, Qingdao University of Technology, Qingdao, China
R. Maheswar, VIT University Bhopal, Bhopal, India
Shancheng Zhao, Jinan University College of Information Science and Technology, Jinan, China
Chaoqing Dai, Zhejiang University Department of Optical Engineering, Lin'an, Zhejiang, China
Francisco Garcia Herrero, Nebrija University ARIES Research Center, Madrid, Spain
Taimoor Abbas, Huawei Sweden Technologies AB R&D Institute, Kista, Sweden
Wei Wei, Xi'an University of Technology, Xi'an, China
Varun Menon, SCMS School of Engineering and Technology, Ernakulam, India
Anwer Dulaimi, EXFO Inc, Quebec, Quebec, Canada
Neal Xiong, Northeastern State University, Tahlequah, Oklahoma, United States of America
Sherali Zeadally, University of Kentucky, Lexington, Kentucky, United States of America
Tao Hong, Beihang University, Beijing, China
Baofeng Ji, Henan University of Technology College of Information Science and Engineering, Zhengzhou, China
Yingsong Li, Harbin Engineering University, Haerbin, China
Mamoun Alazab, Charles Darwin University, Casuarina, Australia

Mechanical Engineering
Mostafa Safdari Shadloo, Rouen University, Mont-Saint-Aignan, France
Zhiming Wang, University of Electronic Science and Technology of China, Chengdu, China
Vishal Santosh Sharma, University of the Witwatersrand School of Mechanical Industrial and Aeronautical Engineering,
Goodarz Ahmadi, Clarkson University, Potsdam, New York, United States of America
Omid Mahian, Xi'an Jiaotong University, Xi'an, China
Qasem M. Al-Mdallal, United Arab Emirates University, Al Ain, United Arab Emirates
Oronzio Manca, University of Campania Luigi Vanvitelli Department of Industrial Engineering and Information Technology, Avanza, Italy
Somchais Wongwises, King Mongkut's University of Technology Thonburi, Bangkok, Thailand
Ali Triki, University of Gabes, Gabes, Tunisia
Sohail Nadeem, Quaid-i-Azam University Department of Mathematics, Islamabad, Pakistan
Mansour Al-Qubeissi, Coventry University Department of Mechanical Engineering School of Mechanical, Aerospace and Automotive Engineering, Coventry, United Kingdom
Mohamed Ghorab, Natural Resources Canada Canmet ENERGY Technology Centre Department of Mechanical Engineering, Ottawa, Canada
Hwai Chyuan Ong, University of Technology Sydney Faculty of Engineering and Information Technology, Sydney, New South Wales, Australia
Zakia Hammouch, Moulay Ismail University Faculty of Sciences & Techniques Errachidia, Meknes, Morocco
Md Hasanuzzaman, Higher Institution Centre of Excellence UM Power Energy Dedicated Advanced Centre, Kuala Lumpur, Malaysia
Ahmed Elwardany, Egypt Japan University of Science and Technology Department of Mechanical Engineering, New Borg El Arab, Egypt
Ho Seon Ahn, Incheon National University Department of Mechanical Engineering, Incheon, South Korea
Mohammed A. Teamah, Alexandria University Department of Mechanical Engineering, Alexandria, Egypt
Alina Adriana Minea, Gheorghe Asachi Technical University of Iasi Faculty of Material Science and Engineering, Iasi, Romania
Lotfi Selloussi, University of Monastir Department of Physics, Monastir, Tunisia

Mathematics
Xiao-Jun Yang, China University of Mining and Technology State Key Laboratory for Geomechanics and Deep Underground Engineering, Xuzhou, Jiangsu, China
Abdon Atangana, University of the Free State Faculty of Natural and Agricultural Sciences, Bloemfontein, South Africa
Sarwat N. Hanna, Alexandria University Department of Engineering Mathematics and Physics, Alexandria, Egypt
Hossein Jafari, University of South Africa, Capetown, South Africa
Jagdev Singh, JECRC University, Jaipur, Rajasthan, India
Thabet Abdeljawad, Prince Sultan University, Riyadh, Saudi Arabia
Jan Andres, Palacky University Olomouc, Olomouc, Czechia
Dumitru Baleanu, Cankaya University, Department of Mathematics, Ankara, Turkey
Jinde Cao, Southeast University Department of Mathematics, Nanjing, China
Emile Franc Doungmo Goufo, University of South Africa, Department of Mathematical Sciences, Florida, South Africa
Hari Mohan Srivastava, University of Victoria Department of Mathematics and Statistics, Victoria, British Columbia, Canada
Carlo Cattani, University of Tuscia, Viterbo, Italy
Sunil Kumar, National Institute of Technology Jamshedpur, Jamshedpur, India
Héctor Manuel Moya-Cessa, National Institute of Optical Astrophysics and Electronics, Puebla, Mexico
Carlo Bianca, ECAM-EMPI Cergy, Cergy, France
Kottakkaran Sooppy Nisar, Prince Sattam bin Abdulaziz University, Al Khair, Saudi Arabia
Khalida Inayat Noor, COMSATS University Islamabad Department of Mathematics, Islamabad, Pakistan
Enkelejd Hashorva, University of Lausanne, Lausanne, Switzerland
Muhammad Uzair Awan, Government College University Faisalabad Department of Mathematics, Faisalābād, Pakistan

Computer Science
Gautam Srivastava, Brandon University, Brandon, Manitoba, Canada
S. Elsayed, University of New South Wales, Sydney, New South Wales, Australia
M. M. Eltoukhy, University of Jeddah, Jeddah, Saudi Arabia
Harish Garg, Thapar Institute of Engineering and Technology, Patiala, India
Adnan Ahmad, Saint Louis University, Saint Louis, Missouri, United States of America
Furkh Zeshan, COMSATS University Islamabad - Lahore Campus, Pakistan
Ahmed Farouk, Wilfrid Laurier University Department of Physics and Computer Science, Waterloo, Ontario, Canada

Industrial Engineering
Mohammed Nashat Fors, Alexandria University Department of Production Engineering, Alexandria, Egypt
Lee J. Wells, Western Michigan University, Kalamazoo, Michigan, United States of America
Mohammad A Younes, Alexandria University Department of Production Engineering, Alexandria, Egypt
Civil Engineering
Hossam M Moghazy, Alexandria University Department of Irrigation Engineering and Hydraulics, Alexandria, Egypt
Walid Ibrahim Elbarki, Alexandria University Department of Sanitary Engineering, Alexandria, Egypt
Hassan G El-Ghazouly, Alexandria University Department of Transportation Engineering, Alexandria, Egypt
Said A. Allam, Alexandria University Department of Structural Engineering, Alexandria, Egypt
Mohamed El-Naggar, Alexandria University Department of Transportation Engineering, Alexandria, Egypt
Tarek Ebeido, Alexandria University Department of Structural Engineering, Alexandria, Egypt

Nuclear Engineering
Hanaa Abou Gabl, Alexandria University Department of Nuclear and Radiation Engineering, Alexandria, Egypt
Hany S. Abdel-Khalik, Purdue University School of Nuclear Engineering, West Lafayette, Indiana, United States of America

Marine Engineering
Mohamed Morsy El Gohary, Alexandria University Department of Marine Engineering and Naval Architecture, Alexandria, Egypt
Yousri M Welaya, Alexandria University Department of Marine Engineering and Naval Architecture, Alexandria, Egypt
Spyros E. Hirdaris, Aalto University, Espoo, Finland

Textile Engineering
Affaf K Aloufy, Alexandria University Department of Textile Engineering, Alexandria, Egypt
Sherien Nabil Elkateb, Alexandria University Department of Textile Engineering, Alexandria, Egypt

Chemical Engineering
Gihan F. Malash, Alexandria University, Department of Computer Engineering, Alexandria, Egypt
Nevine Kamal Amin, Alexandria University Chemical Engineering Department, Alexandria, Egypt
GUIDE FOR AUTHORS

Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:
• E-mail address
• Full postal address

All necessary files have been uploaded:
Manuscript:
• Include keywords
• All figures (include relevant captions)
• All tables (including titles, description, footnotes)
• Ensure all figure and table citations in the text match the files provided
• Indicate clearly if color should be used for any figures in print
Graphical Abstracts / Highlights files (where applicable)
Supplemental files (where applicable)

Further considerations
• Manuscript has been 'spell checked' and 'grammar checked'
• All references mentioned in the Reference List are cited in the text, and vice versa
• Permission has been obtained for use of copyrighted material from other sources (including the Internet)
• A competing interests statement is provided, even if the authors have no competing interests to declare
• Journal policies detailed in this guide have been reviewed
• Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information on Ethics in publishing.

Declaration of interest
All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double anonymized) or the manuscript file (if single anonymized). If there are no interests to declare then please state this: 'Declarations of interest: none'. 2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal's official records. It is important for potential interests to be declared in both places and that the information matches. More information.

Submission declaration and verification
Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service Crossref Similarity Check.
Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Content should make no assumptions about the beliefs or commitments of any reader; contain nothing which might imply that one individual is superior to another on the grounds of age, gender, race, ethnicity, culture, sexual orientation, disability or health condition; and use inclusive language throughout. Authors should ensure that writing is free from bias, stereotypes, slang, reference to dominant culture and/or cultural assumptions. We advise to seek gender neutrality by using plural nouns ("clinicians, patients/clients") as default/wherever possible to avoid using "he, she," or "he/she." We recommend avoiding the use of descriptors that refer to personal attributes such as age, gender, race, ethnicity, culture, sexual orientation, disability or health condition unless they are relevant and valid. These guidelines are meant as a point of reference to help identify appropriate language but are by no means exhaustive or definitive.

Author contributions
For transparency, we encourage authors to submit an author statement file outlining their individual contributions to the paper using the relevant CRediT roles: Conceptualization; Data curation; Formal analysis; Funding acquisition; Investigation; Methodology; Project administration; Resources; Software; Supervision; Validation; Visualization; Roles/Writing - original draft; Writing - review & editing. Authorship statements should be formatted with the names of authors first and CRediT role(s) following. More details and an example

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.
Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

Copyright
Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see more information on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Author rights
As an author you (or your employer or institution) have certain rights to reuse your work. More information.

Elsevier supports responsible sharing
Find out how you can share your research published in Elsevier journals.

Open access
Please visit our Open Access page for more information.

CC_BY-NC-ND License
For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

Elsevier Researcher Academy
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.
Language (usage and editing services)
Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's Author Services.

Submission
Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor’s decision and requests for revision, is sent by e-mail.

Referees
Please submit the names and institutional e-mail addresses of several potential referees. For more details, visit our Support site. Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

PREPARATION
Queries
For questions about the editorial process (including the status of manuscripts under review) or for technical support on submissions, please visit our Support Center.

Figures and tables embedded in text
Please ensure the figures and the tables included in the single file are placed next to the relevant text in the manuscript, rather than at the bottom or the top of the file. The corresponding caption should be placed directly below the figure or table.

Peer review
This journal operates a single anonymized review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor’s decision is final. Editors are not involved in decisions about papers which they have written themselves or have been written by family members or colleagues or which relate to products or services in which the editor has an interest. Any such submission is subject to all of the journal's usual procedures, with peer review handled independently of the relevant editor and their research groups. More information on types of peer review.

Use of word processing software
It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor’s options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

Article structure
Subdivision - numbered sections
Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Introduction
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
Material and methods
Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

Theory/calculation
A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

Results
Results should be clear and concise.

Discussion
This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

Conclusions
The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

Appendices
If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

Essential title page information
- Title. Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- Author names and affiliations. Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lowercase superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
- Corresponding author. Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.
- Present/permanent address. If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

Abstract
A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

Keywords
Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

Abbreviations
Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.
Acknowledgements
Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

Math formulae
Please submit math equations as editable text and not as images. Present simple formulae in line with normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

Footnotes
Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors can build footnotes into the text, and this feature may be used. Otherwise, please indicate the position of footnotes in the text and list the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Artwork
Electronic artwork
General points
• Make sure you use uniform lettering and sizing of your original artwork.
• Embed the used fonts if the application provides that option.
• Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
• Number the illustrations according to their sequence in the text.
• Use a logical naming convention for your artwork files.
• Provide captions to illustrations separately.
• Size the illustrations close to the desired dimensions of the published version.
• Submit each illustration as a separate file.
• Ensure that color images are accessible to all, including those with impaired color vision.

A detailed guide on electronic artwork is available.

You are urged to visit this site; some excerpts from the detailed information are given here.

Formats
If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.
Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):
EPS (or PDF): Vector drawings, embed all used fonts.
TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

Please do not:
• Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
• Supply files that are too low in resolution;
• Submit graphics that are disproportionately large for the content.

Color artwork
Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF) or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) in addition to color reproduction in print. Further information on the preparation of electronic artwork.

Figure captions
Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (not on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.
Tables
Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

References
Citation in text
Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

Web references
As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

References in a special issue
Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

Reference management software
Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley. Using citation plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal's style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes from different reference management software.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:
http://open.mendeley.com/use-citation-style/alexandria-engineering-journal
When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

Reference style
Text: Indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given.
Example: "..... as demonstrated [3,6]. Barnaby and Jones [8] obtained a different result ...."
List: Number the references (numbers in square brackets) in the list in the order in which they appear in the text.
Examples:

Journal abbreviations source
Journal names should be abbreviated according to the List of Title Word Abbreviations.

Supplementary and multimedia data
Elsevier accepts electronic supplementary and multimedia data to support and enhance your scientific research. Supplementary files offer the author additional possibilities to publish supporting applications, movies, animation sequences, high-resolution images, background datasets, sound clips and more. Supplementary files supplied will be published online alongside the electronic version of your article in Elsevier Web products, including ScienceDirect: http://www.sciencedirect.com
In order to ensure that your submitted material is directly usable, please ensure that data are provided in one of our recommended file formats. Authors should submit the material in electronic format together with the article and supply a concise and descriptive caption for each file. Video files: please supply 'stills' with your files: you can choose any frame from the video or make a separate image. These will be used instead of standard icons and will personalize the link to your supplementary information. For more detailed instructions please visit our artwork instruction pages at https://www.elsevier.com/artworkinstructions.

AFTER ACCEPTANCE

Online proof correction
To ensure a fast publication process of the article, we kindly ask authors to provide us with their proof corrections within two days. Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.
If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.
We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

AUTHOR INQUIRIES
Visit the Elsevier Support Center to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.
You can also check the status of your submitted article or find out when your accepted article will be published.

© Copyright 2018 Elsevier | https://www.elsevier.com