

The Journal of Science and Its Applications (J.Sci.App.) is designed to provide guidelines, scientific background, and scientific credibility for Science applications and to support increased dialogue among researchers, and the scientific communities. In addition to technical papers, the Journal includes theoretical papers, reports, perspectives, and articles of general interest to researchers and University staff members.

Editorial Board

Chairman: Dean, Prof. M. M. Fadiel

E-mail : Fmahmoud@garyounis.edu

Editor - in - Chief: Prof. F. El-Ashhab

E-mail : felashhab@garyounis.edu

Director of General Affairs: Dr. A.M. Mami

E-mail : amami@garyounis.edu

I-Tech Director: Dr. M. M. EL-Ammari

E-mail : ammari@garyounis.edu

General Coordinator: Dr. I. M. Hamammu

E-mail : Hamammu@garyounis.edu

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Prof. A. S. El-Hawat

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Scope

Journal of Science and its Applications is a multidisciplinary periodical that publishes scientific contributions in pure and applied sciences. The Journal appears quarterly and publishes articles, notes, communications, and comments.

Articles should cover the subjects with thoroughness, clarity, and completeness. Authors should make their articles concise and avoiding unnecessary historical background. Articles should have an abstract briefly stating the objectives, significant results and discussions, and major conclusions of the paper. The abstract should not exceed 100 words.

Notes should represent shorter reports in full of a significant work on a more limited subject matter than articles. It should not exceed 3 printed pages. Notes are not preceded by abstracts. Communications should report preliminary results whose immediate availability to the scientific community is deemed important. It should not exceed 4 printed pages and not preceded by abstracts.

Comments include significant remarks on the work of authors. It should not exceed 2 printed pages and not preceded by abstracts.

Detail Instruction for contributors is available from the home page of the Journal (www.jsciapp.garyounis.edu) and also at the end pages of this journal.

Prof. F. EL-Ashhab: Editor-in-Chief
E-mail: felashhab@garyounis.edu

Editorial

The Board of the Scientific committee in the Faculty of Science at Garyounis University first discussed the initiation of a Science Journal more than three years ago, when scattered review articles about several branches of Science had begun to frequently appear in one Annual Review series or another. The project gathered momentum as a result of extensive personal interviews, and four planning meetings during 2003 and 2004 when the general coverage and specific contents of the initial issue began to emerge. Questions raised and elaborated on in details at those meetings included: Is a Journal of Science and its Applications needed? Is this the time to establish it? Can such a new series make a significant contribution to the research and educational literature in the broad field of science? If so, what should be its scope and focus? What major subjects should be covered, and with what frequency? Should theoretical or applications receive major attention? How does one define "Applications of Science?"

During the preliminary discussions that led to the delineation of the [J.Sci.App.](#), another working definition offered was: "whatever is taught in university departments of sciences." This is a useful starting point, but it gives short shrift to the indispensable contributions of academically research laboratories. One important historical function of the Science Journal has been to help in the definition of a scientific discipline and to set critical standards for excellence within it, as well as to provide information useful to research workers, teachers, and students. Therefore, as this series and the fields of research itself continue to evolve, I can foresee that the domain of the [J.Sci.App.](#) will become the operational definition of applied sciences.

Editor - in - Chief: Prof. F. El-Ashhab

Foreword

This new [J.Sci.App.](#) is a source of accurate and up-to-date information on the most important topics in Biological, Physical, and Mathematical Sciences and their applications. Articles are admirably concise, widely accessible to all researchers and staff members of the University, yet authoritative and impressively comprehensive.

This outstanding Journal will become the standard online and print reference for science and its applications. Carefully assembled, well written, and fully in line with modern scientific applications to many science disciplines, the individual authors are well chosen and have contributed important essays.

The contributors for each particular area of subject matter may consider to be the absolute experts in their field. My compliments for being able to get such a diverse and knowledgeable panel of experts together.

This issue boasts a distinguished editorial staff along with over 12 individual contributors from Garyounis University and research organizations in Libya, as well as the editorial Board who are widely published researchers.

Lastly, we expect [J.Sci.App.](#) to be a leading journal in its field, attempts to combine theoretical innovation with thorough research. Also, we are working to make this new scholarly journal one of its kind, and it will be distinguished for the quality, depth and originality of its articles.

Preparing this issue has been a real team effort. I am especially grateful to Prof. F. El-Ashhab, Editor - in - Chief, along with the able assistance of Dr. A. Mami and Dr. I. Hammou, who have been delightful to work with and incredibly effective in every way. Also, I extend my sincere thanks to a superb team of editorial board, and authors for hanging in there and making this issue a success.

To our readers, we offer you this reference (www.jsciapp.garyounis.edu). To the extent that you find it useful. We also want to hear how you believe we can make it better. The publisher as well as the editors are committed to continual updating and refinement of what we believe is a valuable resource for transmitting knowledge and understanding about the new researches that make living on Earth much more easier.

Editorial Chairman: Dean, Prof. M. M. Fadiel

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