

How to Write a Scientific Research Paper

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Abstract:

Scientific experiments are demanding, exciting endeavors, but, to have an impact, results must be communicated to others. A research paper is a method of communication, an attempt to tell others about some specific data that you have gathered and what you think those data mean in the context of your research. Scientific papers must be written clearly and concisely so that readers with backgrounds similar to yours can understand easily what you have done and how you have done it should they want to repeat or extend your work. This Paper provides a proper guideline to write a scientific paper for young researchers and that allow them to prepare a well-structured and comprehensive manuscript for a publication submission.

Key words: Scientific Paper; Research Paper; Manuscript Writing

Introduction:

The dissemination of research results and findings is an integral part of the research process and the career in academia. Researchers write to keep records of their work for themselves, but more importantly for readers and peers who are expecting a standard form, language and style when reading research papers. ^[1]Scientific paper has a required structure and style. However, a research article is not only a technically rigid document, but also a subjective intellectual product. Therefore, it requires good skills in both structuring and phrasing. These skills are acquired through experience, and can also

be taught. ^[2] Ironically, most graduate programmes in medicine and health sciences do not offer hands-on training in writing and publishing in scientific journals. Therefore, most authors learn the art and science of scientific writing the hard way; though there are papers that provide step-by-step guide to writing. ^[3]

What constitute a good paper- worthy of publication? There are no straight answers. Some define a good paper as a clear, coherent, focussed, well-argued document that uses unambiguous language. ^[4]

The main objective of this paper is to serve early-stage researchers with handy introduction to the structural components of scientific papers and the processes that lead to their publication.

Structure and Content of a Manuscript

A manuscript is typically composed of a number of sections:

- Abstract;
- Key words;
- Introduction;
- Method;
- Results;
- Discussion;
- Conclusions;
- Acknowledgement and
- References

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Writing Scientific Research Articles Margaret Cargill, Patrick D. T. O'Connor, 2011-09-13 Margaret Cargill's background as a linguist and research communications educator and Patrick O'Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the authors' goal is to give scientists the tools to write and publish compelling, well-documented, clear narratives that convey their work honestly and in proper context, they have succeeded admirably. *Veterinary Pathology* July 2009. The book is clearly written, has a logical step-by-step structure, is easy to read, and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing. *Aquaculture International* April 2009. *Writing Scientific Research Articles: Strategy and Steps* guides authors in how to write as well as what to write to improve their chances of having their articles accepted for publication in international peer-reviewed journals. The book is designed for scientists who use English as a first or an additional language for research students and those who teach them paper-writing skills and for early-career researchers wanting to hone their skills as authors and mentors. It provides clear processes for selecting target journals and writing each section of a manuscript, starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well-written example papers. Strategies are presented for responding to referee comments as well as ideas for developing discipline-specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at www.writeresearch.com.au for more information.

Writing and Publishing Science Research Papers in English Karen Englander, 2013-10-11. This book provides a comprehensive review of the current knowledge on writing and publishing scientific research papers and the social contexts. It deals with both English and non-Anglophone science writers and presents a global perspective and an international focus. The book collects and synthesizes research from a range of disciplines, including applied linguistics, the sociology of science, sociolinguistics, bibliometrics, composition studies, and science education. This multidisciplinary approach helps the reader gain a solid understanding of the subject. Divided into three parts, the book considers the context of scientific papers, the text itself, and the people involved. It explains how the typical sections of scientific papers are structured. Standard English scientific writing style is also compared with science papers written in other languages. The book discusses the strengths and challenges faced by people with different degrees of science writing expertise and the role of journal editors and reviewers.

Law and the Regulation of Scientific Research Mark Davies, 2022-08-12. Scientific research is fundamental to addressing issues of great importance to the development of human knowledge. Scientific research fuels advances in medicine, technology, and other areas important to society and has to be credible, trustworthy, and able to command confidence in the face of inevitable uncertainties. Scientific researchers must be trusted and respected when they engage with knowledge acquisition and dissemination and as ethical guardians in their

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Science Communication on the Internet María-José Luzón, Carmen Pérez-Llantada, 2019-12-04 This book examines the expanding world of genres on the Internet to understand issues of science communication today The book explores how some traditional print genres have become digital how some genres have evolved into new digital hybrids and how and why new genres have emerged and are emerging in response to new rhetorical exigences and communicative demands Because social actions are in constant change and ensuing from this genres evolve faster than ever it is important to gain insight into the interrelations between old genres and new genres and the processes underpinning the construction of new genre sets chains and assemblages for communicating scientific research to both expert and diversified audiences In examining scientific genres on the Internet this book seeks to illustrate the increasing diversification of genre ecologies and their underlying social disciplinary and individual agendas

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