

## 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. <sup>[1]</sup>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. <sup>[2]</sup> 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. <sup>[3]</sup>

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. <sup>[4]</sup>

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

# How To Write A Scientific Research Paper

**Björn Gustavii**



## **How To Write A Scientific Research Paper:**

How to Write a Scientific Paper Jari Saramäki,2018-11-03 What if writing scientific papers was faster easier and a bit less painful This book provides a step by step top down approach that makes it easier to turn your hard won results into research papers that your fellow scientists want to read and cite I just wrote a rough first draft of a paper during a 3 hour flight and if it wasn t for these teachings this would have taken me days if not weeks Talayeh Aledavood James S McDonnell Postdoctoral Fellow University of Helsinki The book s systematic approach builds on what I ve learned through coauthoring close to 100 research papers with students You ll learn how to outline your paper from top to down how to develop your story and how to think about what to write before you write it You ll also learn how to deal with many issues that writers of science commonly face from the fear of the blank page to dealing with critical reviews Here s what you get A complete step by step plan for writing a scientific paper from choosing which results to include to wrapping up the paper in the Discussion section Concrete actionable and practical advice from a paragraph level template for the Introduction to guidance on preparing plots and figures Lots of writing tips from placing signposts in your text to shortening and straightening your sentences This book has been written for the PhD student who is aiming to write a journal article on her research results but it should also be useful to any scientist who has ever found writing difficult Whatever the stage of your career if you d like to learn how to write research papers systematically and efficiently this is the book for you The book includes PART I STORY 1 How To Choose The Key Point Of Your Paper 2 How To Choose The Supporting Results 3 How To Write The Abstract 4 How To Choose The Title PART II OUTLINE 5 The Power Of Outlining 6 How To Write The Introduction Part I Structure 7 How To Write The Introduction Part II A Four Paragraph Template 8 How To Write The Introduction Part III The Lede 9 How To Write The Materials And Methods 10 How To Write The Results Part I Figures 11 How To Write The Results Part II Text 12 How To Write The Discussion PART III WORDS 13 How Does Your Reader Read 14 How To Write Your First Draft 15 How To Edit Your First Draft 16 Tips For Revising Content And Structure 17 Tips For Editing Sentences PART IV IT S NOT OVER YET 18 How To Write The Cover Letter 19 How To Deal With Reviews About the author I am a professor of computational science and an experienced academic with around 100 published papers My research is interdisciplinary to say the least I have studied the social fabric of smartphone users the genetic structure of ant supercolonies the connectome of the human brain networks of public transport and the molecular biology of the human immune system to name a few So one could say that I have a broad range of scientific interests or that I simply cannot choose But that s exactly the way I like it How to Write and Publish a Scientific Paper Robert A Day,Barbara Gastel,2006-04-26 Guide on writing and submitting a scientific paper for graduates to professionals **How to Write and Publish a Scientific Research Paper** Sophie Domingues-Montanari,2011 *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](http://www.writeresearch.com.au) for more information

**Writing and Publishing a Scientific Research Paper** Subhash Chandra Parija,Vikram Kate,2017-07-28 This book covers all essential aspects of writing scientific research articles presenting eighteen carefully selected titles that offer essential must know content on how to write high quality articles The book also addresses other rarely discussed areas of scientific writing including dealing with rejected manuscripts the reviewer s perspective as to what they expect in a scientific article plagiarism copyright issues and ethical standards in publishing scientific papers Simplicity is the book s hallmark and it aims to provide an accessible comprehensive and essential resource for those seeking guidance on how to publish their research work The importance of publishing research work cannot be overemphasized However a major limitation in publishing work in a scientific journal is the lack of information on or experience with scientific writing and publishing Young faculty and trainees who are starting their research career are in need of a comprehensive guide that provides all essential components of scientific writing and aids them in getting their research work published

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**How to Write and Illustrate a Scientific Paper** Björn Gustavii,2017-02-16 This compact and easy to read book contains essential advice on how to take a manuscript from planning right through to publication It will help both first time writers and more experienced authors to present their results more effectively While retaining the easy to read and well structured approach of previous editions the third edition of this essential guide has been expanded to include comprehensive advice on drawing graphs and information about Open Access publishing Illustrations are discussed in detail with examples of poor illustrations taken from real papers in top ranked journals redrawn for comparison Such before and after examples are also provided to demonstrate good and bad writing styles The reader is offered practical advice from how to present a paper and where to submit the manuscript through to responding to reviewers comments and correcting the proofs all developed through the author s extensive teaching experience and his many years spent working as a journal editor

*How to Write and Publish a Scientific Paper* Robert A. Day,1979 Abstract Practical and informative guidance is provided to scientists and science students with an emphasis on biology to prepare well written manuscripts that have a high probability of becoming accepted for publication in technical journals While journal requirements vary widely

basic writing and formatting principles that are accepted in most science disciplines are presented The material is expressly presented in a how to format for each category addressed Individual chapters focus on the preparation of the manuscript title author listing abstract individual text components introduction experimental results discussion tables illustrations and typing Other topics address the submission review and publishing processes The writing of reviews conference reports and theses also is discussed Appendices are included on abbreviations and common style and spelling errors wz *Scientific Writing From Scratch* Dr Radhika Vijay,2022-09-09 Still thinking of writing and publishing your first scientific research paper No ideas No knowledge No help Well No Worries You have grabbed the right book The book will not only make you write your first research paper you will get to know A B C of research some important to know definitions terms and facts All in all you will be able to confidently initiate research write paper and submit to a journal Yes if you follow the steps properly you will have your research article published in your hands So are you ready Let s get started with the book **Writing Scientific Research in Communication Sciences and Disorder** Robert H. Brookshire, Shelley B. Brundage,2015-11-02 Writing Scientific Research in Communication Sciences and Disorders is a comprehensive guide to the preparation and publication of research papers for researchers in communication sciences and disorders Individual chapters address the structure content and style of the introduction method results and discussion sections of a research paper The balance of the text examines the writing process including the nuts and bolts of preparing tables and graphs reviewing different voices and grammar issues editing your own work working with editors and peer reviewers and getting started toward becoming a productive writer Each topic is illustrated with informative examples with clear direct and often humorous discussion of what makes the examples good or bad Writing is essential in nearly every profession and particularly in communication sciences and disorders where researchers must be able to express complex ideas to a variety of audiences from colleagues to members of health care teams to clients and family members Therefore competency in written expression is required for certification and entry into clinical practice in communication sciences and disorders Writing Scientific Research in Communication Sciences and Disorders will be a valuable supplementary text for undergraduate and graduate students in courses that include writing assignments and critical assessment of research literature such as research methods and evidence based clinical methods courses as well as in thesis and dissertation preparation Researchers looking for a guide to help improve their own writing will also find this text to be an invaluable resource that answers the big and little questions that arise in preparing manuscripts Writing Scientific Research Articles Margaret Cargill, Patrick D. T. O'Connor,2013-06-04 This book shows scientists how to apply their analysis and synthesis skills to overcoming the challenge of how to write as well as what to write to maximise their chances of publishing in international scientific journals The book uses analysis of the scientific article genre to provide clear processes for writing each section of a manuscript starting with clear story construction and packaging of results Each learning step uses practical exercises to develop writing and data presentation skills based on

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## Decoding **How To Write A Scientific Research Paper**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**How To Write A Scientific Research Paper**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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