

Template and Guidelines for Writing a Scientific Paper

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March 30, 2007

Abstract — *The abstract should concisely summarize the contents of a paper. Since potential readers should be able to make their decision on the personal relevance based on the abstract, the abstract should clearly tell the reader what information he can expect to find in the paper. The most essential issue is the problem statement and the actual contribution of described work. The authors should always keep in mind, that the abstract is the most frequently read part of a paper. It should contain at least 70 and at most 120 words.*

1 INTRODUCTION

This document serves two purposes. First it is a template and example for a scientific paper. Second, the text in the sections contains useful information on structuring and writing your first paper. We recommend to read the following sections carefully in order to avoid common mistakes.

The introduction should consist of three parts (as paragraphs, not to be structured into multiple headings):

The first part deals with the *background* of the work and describes the field of research. It should also elaborate on the *general problem statement* and the *relevance*?

The second part should describe the focus of the paper, typically the paragraph starts with a phrase like “*The objective of this paper is ...*”.

The last part should describe the structure of the paper, for example: The paper is structured as follows: Section 2 explains the overall structure for different types of scientific papers. Section 3 gives some hints on writing and covers also acronyms, figures and tables. Section 4 gives a recommendation on L^AT_EX and explains how to get the necessary tools. Section 5 presents a checklist of common mistakes to avoid. Section 6 concludes the paper.

2 STRUCTURE OF YOUR PAPER

2.1 RESEARCH PAPERS

The structuring of your sections heavily depends on the type of your paper. For example if you have done some research encompassing an experimental setup and measurements, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einleitung
- Related Work; Verwandte Arbeiten
- Basic concepts, Concepts and Terms; Grundbegriffe, Grundkonzepte und Definitionen
- Experimental setup, Applied Method; Versuchsaufbau, Vorgangsweise
- Results; (Experimentielle) Ergebnisse
- Discussion, Proof; Diskussion, Beweis
- Conclusion (and Outlook), Summary; Schlussfolgerungen, Fazit; Zusammenfassung (und Ausblick)
- References; Literaturverzeichnis

The colons separate possible variants in naming the sections. The variants after the semicolon give the German counterparts. If some text is in brackets, this text could be optionally added to the given variant (but used without brackets).

The section on related work might also appear right before the concluding section.

The section on basic concepts should introduce the basic terms and concepts that are needed to understand the following sections of the paper. Sometimes, it is not necessary to have a separate section on basic concepts, if the basic concepts are well-known or can be covered in the introduction.

The experimental setup typically describes the used hardware, software, and the implementation. If your implementation has a fancy name, you could also name that section that way (for example *KHUFU System Description*).

Most papers you will read for your first paper will likely be such *research papers*.

2.2 SURVEY PAPERS

If you do a literature research comparing some approaches, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einleitung

Science Research Paper Template

Huangqi Zhang



Science Research Paper Template:

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disciplines It is an invaluable resource for those working on a PhD thesis research paper dissertation or report Writing these documents can be a long and arduous experience for students and their supervisors and even for experienced researchers However this book can hold the key to success Mapping the steps involved in the writing process from acquiring and organizing sources of information to revising early drafts to proofreading the final product it provides clear guidance on what to write and how best to write it Features Step by step approach to academic writing in scientific disciplines Ideal guidance for PhD theses papers grant applications reports and more Includes worked out examples from real research papers and PhD theses and templates and worksheets are available online to help readers put specific tasks into practice Improving Scientific Communication for Lifelong Learners Kurubacak-Meric, Gulsun,Sisman-Ugur, Serap,2021-02-19 Scientific communication Sci Com is a part of information science and the sociology of science that studies researchers use of formal and informal information channels as well as their communicative roles It also covers the utilization of the formal publication system and similar issues Within the scientific community much attention has focused on improving communications between scientists policymakers and the public Sci Com is an important area of research in meeting these needs The use of communication methods to portray information clearly concisely and effectively whether that be through presentations writing or other approaches is an essential area of interest within the community Improving Scientific Communication for Lifelong Learners seeks to improve scientific writing and speaking skills for lifelong learning researchers by developing an adaptive and responsive open and distance application according to universal design principles The book will focus on the efforts that are centered on improving the content substantiality accessibility and delivery of scientific communications and to convey clear information to an audience so its members can understand use and build on the information portrayed The chapters highlight specific areas such as design thinking distance learning educational technologies student success and motivation and the design of educational environments and learning communities This book is a valuable reference tool for teachers academics communication specialists students researchers developers and R D professionals from various fields such as distance learning online learning accreditation qualitative and quantitative research transhumanism and learning computer engineering sociology and more **Integrity of Scientific Research** Joel Faintuch,Salomão Faintuch,2022-10-13 This book provides a scientific and ethical approach to all forms of fraud and misconduct focusing on a scholarly however practice oriented description of the problems roots and potential solutions Organized in dedicated parts an international team of experts systematically analyzes the most prevalent forms of misconduct ghost writing pseudo science dubious trials predatory journals fake news mistreatment and harassment in research publications at academic institutions and in the professional and healthcare environment A special focus is given to corrective interventions and the role of prevention education and training Comprehensive in its scope the book offers an easy to read overview along with a number of real cases for experienced and novice personnel alike The significance of scientific integrity and research ethics increased during

the last couple of years and ethic committees and offices have become an integral part at universities hospitals research institutions government agencies and major private organizations all over the world Thus this book provides an indispensable comprehensive overview across disciplines and for everybody working in research and affiliated institutions Chapter 37 is available open access under a Creative Commons Attribution 4.0 International License via link springer.com

The Essentials of Political Analysis Philip H. Pollock III, Barry C. Edwards, 2024-12-20 Equip students with the skills and confidence they need to conduct political analyses and critically assess statistical research In the Seventh Edition of *The Essentials of Political Science* bestselling authors Philip H Pollock III and Barry C Edwards build students analytic abilities and develop their statistical reasoning with new data fresh exercises and clear examples This brief and reader friendly guide walks students through the essentials defining measurement formulating and testing hypotheses measuring variables while using key terms chapter opening objectives over 80 tables and figures and practical exercises to get them using and applying their new skills Using Excel R SPSS or STATA Companion workbooks featuring statistical software instructions and exercises help your students apply their knowledge *Abstracts of Papers* American Association for the Advancement of Science.

National Meeting, 1989 **Advanced Materials Researches, Engineering and Manufacturing Technologies in**

Industry Hong Hua Tan, 2013-09-04 Selected peer reviewed papers from the 2013 2nd International Symposium on Materials Science and Engineering Technology ISMSET 2013 July 27-29 2013 Singapore *Advance Papers of the*

Conference, 1975 **Scientific American**, 1883 *Advance Papers*, 1975 **Current Awareness Abstracts**, 2000

Journal of Nanoscience and Nanotechnology, 2007 **Eloquent Science** David M. Schultz, 2009 Eloquent Science A Practical Guide to Becoming a Better Writer Speaker Atmospheric Scientist was conceived from a workshop taught over six years to undergraduate students at a summer research experience The volume is divided into three parts writing reviewing and speaking and offers tips on poster presentations media communication and advice for non native speakers of English as well as appendices on proper punctuation usage and meteorological concepts Sidebars written by experts in the field offer diverse viewpoints on reference topics important to the reader and a recommended reading section at the end of the book guides the reader to the best additional resources **Proceedings of the Seventh International Joint Conference on**

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Special topic volume with invited peer reviewed papers only *Proceedings of the 1975 Conference on Information Sciences and Systems*, 1975 *Yale Scientific*, 2001 *Principles and Practices for Using Scientific Advice in Government Decision Making* William Smith, 1999 This report characterizes the international responses to the changing demands on the science policy process Chapter 1 discusses the role of science advice in government decision making with regard to such issues as the science policy interface the decision making environment internal procedures outside advice quality control risk

assessment science communications and science in a social context Chapters 2 3 review the key elements of different systems of science advising best practices and approaches to risk assessment public communications in the European Union New Zealand the Nordic Union the United Kingdom the United States Australia the World Bank and national science academies Chapter 4 contains case studies that examine the effective use of different principles for the incorporation of science into decision making The final chapter reviews the main points lessons learned Issues in Information Science Research: 2011 Edition ,2012-01-09 Issues in Information Science Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Information Science Research The editors have built Issues in Information Science Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Information Science Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Information Science Research 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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web the molar volume of a gas expresses the volume occupied by 1 mole of that respective gas under certain temperature

and pressure conditions the most common example is the molar volume of a gas at stp standard temperature and pressure which is equal to 22.4 l for 1 mole of any ideal gas at a temperature equal to 273.15 K and a pressure

1.4 Avogadro's number and the mole chemistry libretexts - May 12 2023

web the molar volume will be the volume occupied by one molar mass 32 g of the liquid expressing the density in liters instead of ml we have $V = \frac{m}{\rho} = \frac{32 \text{ g}}{1.790 \text{ g/L}} = 17.87 \text{ L}$ nonnumber

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web the molar volume of a gas from Avogadro's law the volume is directly proportional to the number of moles the important point to keep in mind is that n can be moles of any gas since one mole always contains 6.02×10^{23} molecules and one molecule of any gas at the same temperature will have the same kinetic energy based on this principle it is found

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web Apr 22 2020 molar volume of gases 1 counting in moles one mole is defined as 6.02×10^{23} particles this is the Avogadro number an unchanging constant whether you are counting hydrogen atoms carbon dioxide molecules or carbonate ions a mole is always 6.02×10^{23} but as different particles have different mass their molar mass varies

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web Mar 12 2018 you can define the concentration of a gas though and that calculation would be exactly the one you've described placing x moles of a gas in a container of volume V yields a concentration $C = \frac{x}{V}$ with units of g/mol over dm^3

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web the molar volume has the SI unit of cubic metres per mole m^3/mol although it is more typical to use the units cubic decimetres per mole dm^3/mol for gases and cubic centimetres per mole cm^3/mol for liquids and solids

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web zero degrees Celsius or 273 K is defined as standard temperature and one atmosphere or 760 mm Hg is defined as standard pressure the volume occupied by one mole of a gas is called molar volume therefore the molar volume of a gas at standard temperature and pressure STP is 22.4 L

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web at standard temperature and pressure STP the molar volume V_m is the volume occupied by one mole of a chemical element or a chemical compound it can be calculated by dividing the molar mass M by mass density ρ molar gas volume is one mole of any gas at a specific temperature and pressure has a fixed volume molar volume formula

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web after defining the gas phase properties of gases such as temperature pressure and volume are discussed the relationships between these properties are explained at a molecular level and simple models are introduced that allow the various gas laws to be derived from first principles finally the collisional behavior of gases is used to

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