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- ACADEMIC PUBLISHING COMPANIES
- THE PUBLISHING PROCESS STEP BY STEP
- STRUCTURING A PAPER



ACADEMIC PUBLISHING COMPANIES

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SPRINGER
WILEY
OXFORD JOURNALS
TAYLOR & FRANCIS
JOURNALS OF AMERICAN CHEMICAL
SOCIETY



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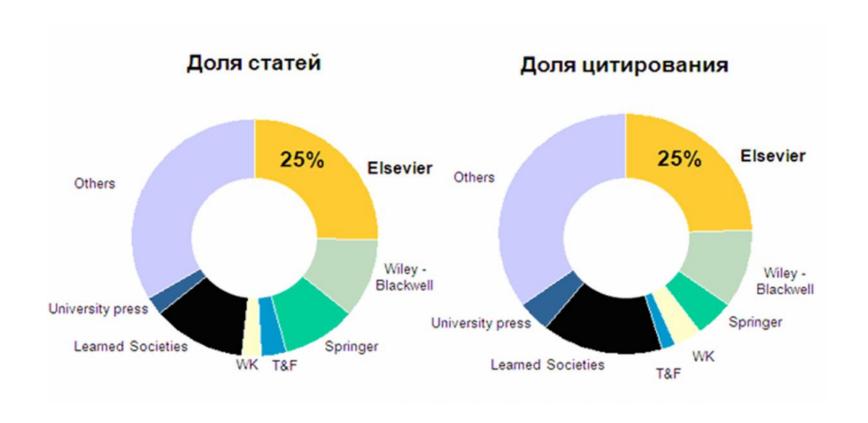
Founded
Country of origin
Headquarters location
Official website

1880 Netherlands Amsterdam www.elsevier.com

2500 scientific journals 250,000 articles a year 11,000 on-line books 7,000 journal editors 70,000 editorial board members 300,000 reviewers 61 offices in 24 countries



WHY ELSEVIER?





WHY ELSEVIER?

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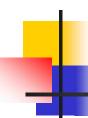
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web based software for Elsevier journals to manage the editorial process. ... EES services authors, editors and reviewers and supports the full editorial process



WHY ELSEVIER?

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from 501 to 1,500 words €162.00

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SPRINGER

The main publishing fields:

science, technology, medicine, business, transport and architecture

Founded 1842

Country of origin Germany

Headquarters location Berlin, Heidelberg

Official website www.springer.com

Turnover in 2012: EUR 981 million

Some 2,200 English-language journals

8,000 new book titles published in 2012

120,000 titles available on SpringerLink

350 open access journals

More than 7,000 employees worldwide





Wiley

Founded 1807

Country of origin United States

Headquarters Hoboken, New Jersey

Nonfiction topics

Science, technology, medicine, professional development, higher education

Revenue US\$1.8 billion

Number of employees 5,100

Official website www.wiley.com



OXFORD JOURNALS



major international publisher of academic and research journals

Founded 1586

Country of origin United Kingdom

Headquarters location Oxford

Official website www.oup.com

Journals by subject

Economics, Humanities, Law, Life Sciences, Medicine, Social Sciences, Mathematical and Physical Sciences



Taylor & Francis

Founded 18 Country of origin U

1852 United Kingdom

1,000 journals, and over 1,800 new books each year

Nonfiction topics

Medicine, science, social science, mathematics, law, engineering

Official website <u>www.taylorandfran</u>



JOURNALS OF AMERICAN CHEMICAL SOCIETY

Formation 1876

Headquarters Washington, D.C.

Location United States

Membership 163,000

Website http://www.acs.org/

Journal Of Chemical Engineering
Journal Of Chemical Education
Journal Of Physical Chemistry
Journal Of Organic Chemistry
Journal Of Chemical Information and
Modeling
Journal Of Chemical Theory and
Computation





THE PUBLISHING PROCESS STEP BY STEP

www.elsevier.com/journal-authors/home#find-a-journal

- 1. Find the right journal
- 2. Prepare your paper
- 3. Submit your paper
- 4. Check Status



Preparing your manuscript

"The scientist must not only "do" science, he must "write" science.

A poorly prepared manuscript is the carrier vehicle of poor science.

Scientists become known (or remain unknown) by their publications.

Good organization is the key to good writing."

R. Day



Structuring a Paper

Preliminary sections:

- Title
- Abstract
- Keywords
- Nomenclature

Major sections:

- Introduction
- Methods and Materials
- Results and Discussion
- Conclusion

• Supporting sections:

- Acknowledgements
- References
- Appendices



What is a good Title?

- A title is UNIQUE.
- A title is CONCISE.
- A title is CLEAR.
- A title is EASY TO FIND.
- A title is HONEST and REPRESENTATIVE of the contribution and the paper.
- A title is as CATCHY as can be.
 Remember, you only have one chance and 2 seconds to interest the reader.



Structuring a Title

A title is composed of two parts: contribution and background.

REMEMBER! Contribution (what is new) comes at the beginning of the title.

Compare:

"Highly efficient waveguide grating couplers using silicon-on-insulator"

and

"Silicon-on-insulator for high-output waveguide grating couplers".



The translation of titles from Russian into English

(development of techniques

of measurement of the size of particles)

- 1. Use of modified nouns. E.g.: immobilization of enzymes vs. enzyme immobilization deposition of chemical vapour vs. chemical vapour deposition
- 2. Use of gerundive and infinitive verbal forms. Addition of verbal forms makes a title shorter and more dynamic. E.g.:
 <u>Assessing</u> the potential of a fine powder to segregate ...

 The method to determine the optimum refractive index parameter ...
- 3. Replacement of the preposition of, where possible, by another, more specific preposition. E.g.:
 - Constructing an engineering model <u>for</u> moisture migration in bulk solids as a prelude to predicting moisture migration caking
 - Studies on potential applications of biomass for the separation of heavy metals from water and wastewater.



What is a good Abstract?

- An abstract is COMPLETE.
- An abstract is TIED TO TITLE. All title words are found in the abstract.
- An abstract is CONCISE.
- An abstract is STAND-ALONE. It lives by itself in its own world: databases of abstracts, journal abstracts.
- An abstract is REPRESENTATIVE of the contribution of the paper. It sets expectations for the reader.



Structuring an Abstract

- motivation/background;
- the purpose of the study;
- the procedure/methodology used;
- the main results/findings obtained;
- the conclusions reached/any recommendations if applicable

Examples of Abstracts

EFFECT OF TILE EFFLUENT ON NUTRIENT CONCENTRATION AND RETENTION EFFICIENCY IN AGRICULTURAL DRAINAGE DITCHES

Abstract. Tile drainage is a common water management practice in many agricultural landscapes in the Midwestern United States. Drainage ditches regularly receive water from agricultural fields through these tile drains. This field-scale study was conducted to determine the impact of tile discharge on ambient nutrient concentration, nutrient retention and transport in drainage ditches. Grab water samples were collected during three flow regimes for the determination of soluble phosphorus (SP), ammonium nitrogen (NH4+-N), nitrate nitrogen (NO3-N) concentrations and their retention in three drainage ditches. Measured nutrient concentration indicated lower SP and NH4+-N, and greater NO3-N concentrations in tile effluents compared to the ditch water. Net uptake lengths were relatively long, especially for NO3-N, indicating that nutrients were generally not assimilated efficiently in these drainage systems. Results also indicated that the study reaches were very dynamic showing alternating increases or decreases in nutrient concentration across the flow regimes. The drainage ditches appeared to be nutrient-rich streams that could potentially influence the quality of downstream waters.

Agricultural Water Management

Examples of Abstracts

Learning with videos vs. learning with print: The role of interactive features

Two complementary studies, one in the laboratory and one in the field, compared the usage patterns and the effectiveness of interactive videos and illustrated textbooks when German secondary school students learned complex content. For this purpose, two videos affording different degrees of interactivity and a content-equivalent illustrated textbook were used. Both studies showed that in contrast to previous studies working with non-interactive videos, the effectiveness of interactive videos was at least comparable to that of print, probably due to the possibilities provided for self-regulated information processing. It was shown that the interactive features of the videos were used spontaneously. However, features enabling microlevel activities, such as stopping the video or browsing, seemed to be more beneficial for learning than features enabling macro-level activities, such as referring to a table of contents or an index. This finding is explained by students' misconceptions about the use of features enabling macro-level activities.

Learning and Instruction Volume 21, Issue 6, December 2011, Pages 687–704



Graphical abstracts

www.elsevier.com/journal-authors/graphical-abstract

A picture paints a 1000 words

- a single, concise, pictorial and visual summary of the main findings of the article
- the concluding figure from the article
- a figure that captures the content of the article for readers at a single glance



HIGHLIGHTS

- a short collection of bullet points that convey the core findings
- provide readers with a quick textual overview of the article
- highlight what is distinctive about the article
- help readers to quickly see why the paper is of interest



EXAMPLE OF HIGHLIGHTS

EXAFS study of the interfacial interaction of nickel(II) on titanate nanotubes: Role of contact time, pH and humic substances

Highlights

- Outer-sphere surface complexes formed at low pH.
- Inner-sphere surface complexes and surface precipitates formed at high pH.
- The microstructure changed from outer-sphere complexes into inner-sphere complexes over extended time.
- Ligand-bridging and metal-bridging ternary complexes formed in the presence of HA/FA



Structuring an Introduction

- general field of research in which the problem is set;
- aspects of the problem already studied by other researchers;
- indicating a gap;
- stating the purpose of the research;
- specifying objectives/ methods/ activities.



Functions of an Introduction

- Section 1 to establish a context to help readers to understand how the present study fits into a wider field of research;
- Section 2 to review the findings of the researchers working in your area of interest;
- Section 3 to indicate an area which has not been studied in previous literature;
- Section 4 to formally announce the purpose.
- Section 5 to clarify some details of the experiment.



Methods and Materials

- the way you conducted your study
- the methods you used to collect and analyse the data
- detailed information on
 - participants
 - materials and equipment used in the experiment
 - procedure



Results and Discussion

What have you found?

- the main findings
- findings that differ from findings in previous publications
- unexpected findings
- results of statistical analysis
- figures and tables

What do results mean?

comparing published results with yours



What is a good Conclusion?

- A conclusion is POSITIVELY CHARGED.
- A conclusion has PREDICTABLE content. There are no surprises.
- A conclusion is CONCISE. Restate the contribution. Close the door. Open new doors.
- A conclusion is COHERENT with the title, abstract, and introduction. It is a part of the same story.



The purposes of References

- to indicate that you are aware of the debate, arguments and practices in your field;
- to add weight and credibility to your statements;
- to enable others to check the accuracy of your information and interpretations;
- to direct others to works you have found useful;
- to acknowledge other people's work and ideas;
- to enable you and your readers to review the sources of your information;



Summary

- ACADEMIC PUBLISHING COMPANIES
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References:

- 1. Lebrun, J-L. (2007) Scientific Writing: A Reader and Writer's Guide. Hackensack, NJ; London: World Scientific Publishing Co.
- 2. Murray, N. and Hughes G. (2008) Writing up your University Assignments and Research Projects. McGraw-Hill Education: Open University Press.