

Scientific Publishing: From Writing to Sharing

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Scientific Publishing: From Writing to Sharing

Time	Topic
09:00-09:40	Steps prior to writing a paper
09:40-10:30	Grammar and writing style
10:30-10:45	Break
10:45-11:15	Tips on the publication process
11:15-12:00	Author identification, impact and visibility

- → You can find the slides of this presentation on our <u>Lib4RI website</u>.
- → Please provide us with your feedback in the end of the course.



Steps prior to writing a paper

Have a story to tell...



Where to start?

- 1. Results
- Do not publish just to publish
- Negative results can be published, wrong results not!

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- 3. Structure of the paper: <u>titles & subtitles</u>
- 4. Discuss with supervisors & co-authors make a plan



5. Read journal's guide for authors

(e.g., https://www.elsevier.com/journals/learning-and-instruction/0959-4752/guide-for-authors)



Title

- Short & attractive
- Which title is concise but also includes sufficient information to make the paper stand out?
- 1. Characterization of a landfill using geophysical data
- 2. Characterization of a heterogeneous landfill using geophysical data
- 3. Characterization of a heterogeneous landfill using seismic and electrical resistivity data
- 4. Characterization of a heterogenous landfill using seismic and electrical geophysical data.

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le/bird-control-landfill-best-practices





Authors – Affiliation

- Who should be your co-author? Who should be the first author?
 (e.g., https://www.psi.ch/integrity/dokumente)
- Use correct affiliation (incl. present address)

Keywords

- General words (e.g., landfills)
- Specific to your research (e.g., MASW)

Highlights

Short sentences which describe the main findings and motivation of your research

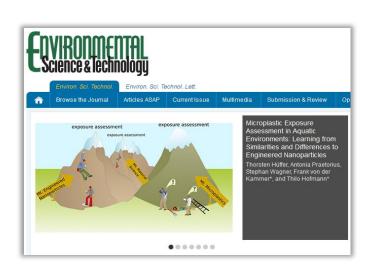


Abstract

- Attract the interest of the reader, do not simply summarize your study
- Three main components:
 - a) What is the problem and what is the focus of your paper?
 - b) What are the main methods you used?
 - c) What are the results? Simply mention them with no explanation

Graphical abstract

An innovative <u>figure</u> to get the interest of the reader





Introduction

You can fill in several paragraphs by answering the following questions:

- What is the problem? Explain in detail and use specific phrases to make your point clear.
- What has been done till now and why is this not enough (gap)?
- Provide clear objectives of your article.
 Explain why your paper is innovative.
- In the end, shortly summarize the content of your paper.

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Main body

- Laboratory/field measurements, theory, models, results
- Explain your measurement (theory/model), procedure (parameters) chronologically
- Add information such as time & place

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 Describe the figures – be specific in both the main text and the figure caption

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Provide a detailed description – do not assume things are self-explanatory



Discussion

- Short summary of results
- Interpretation and evaluation
- Significance
- Comparison with other studies
- Limitations
- Impact and other possible applications of your work
- Future possibilities if you already work on them



- Criticism of your own work can help in the reviewing process
- Helps to connect with your next article



If the discussion is thorough, the conclusions can be as short as a paragraph

Conclusions

Short & precise

Acknowledgements



References

- Use a reference management software
 - which one do you use?
- Do not cite just to cite
- Avoid too many self-citations
- Read the papers you cite

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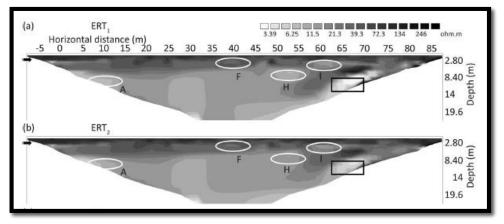
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Figures

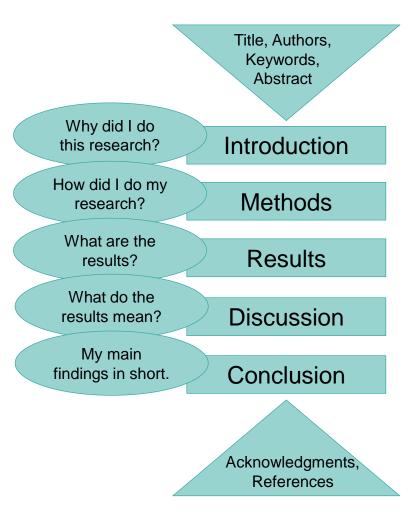
- Follow the instructions in the authors' guide
- When using figures from other authors, check the copyright (Module 3)
- Compare same things
- Be careful with the color scale



Picture from: Kontantaki, 2016. Doctor Thesis



Journal Article vs Review Article





What is a Review Article?

- Usually it does not present new research
- Summary and critical evaluation of another already published article
- Not just an opinion, but a scientific proof of your evaluation of that article

Useful links:

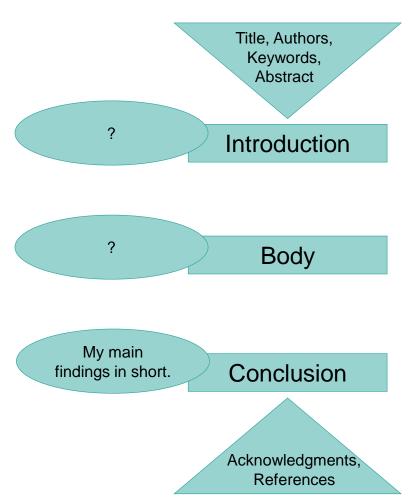
- https://link.springer.com/article/10.1007/s11747-017-0563-4
- https://pdf4pro.com/amp/view/guidelines-review-article-final-eth-z-3b6be0.html



Journal Article

Title, Authors, Keywords, **Abstract** Why did I do this research? Introduction How did I do my Methods research? What are the Results results? What do the Discussion results mean? My main findings in short. Conclusion Acknowledgments, References

vs Review Article





Review article's structure and content

Introduction

- State your topic, summarize the article you review and clearly explain your purpose of writing this review.
- Explain why your review is important for the scientific community.
- Explicitly mention your objectives, main idea and goal of this review.

Body

- Think of it as a "large" discussion part of one of your own articles.
- Do not just summarize the results of the paper, but analyse, critically evaluate and interpret them.
- Create subsections, with specific steps and arguments that will lead to your final conclusion.
- Keep in mind the main idea you stated in the introduction and come back to this through your explanations.



Exercise

Describe your research in one or two sentences (<u>elevator pitch</u>)

Some good examples:

https://graduateschool.nd.edu/assets/76988/elevator_pitch_8_28_2012.pdf

https://academicpositions.be/career-advice/how-to-write-an-elevator-pitch



Thank you!

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The examples presented in this presentation appear in the publications of: Konstantaki et al., 2016, Geophysics, 81,EN75-EN86; Konstantaki et al., 2015, Geophysics, 80, EN13-EN25; Konstantaki et al., 2015, Journal of Applied Geophysics, 122, 28-39; Konstantaki et al., 2013, Geophyscis, 78, EN107-EN116; Konstantaki, 2016, Doctoral Thesis.