

# 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 [Lib4RI website](#).
- ➔ 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- Do not publish just to publish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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[https://s3.amazonaws.com/lowres.cartoonstock.com/science-scientists-experiments-chemist-explosion-chemical\\_reaction-cgan3016\\_low.jpg](https://s3.amazonaws.com/lowres.cartoonstock.com/science-scientists-experiments-chemist-explosion-chemical_reaction-cgan3016_low.jpg)

## 3. Structure of the paper: titles & subtitles

## 4. Discuss with supervisors & co-authors – make a plan

## 2. Figures

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<http://phdcomics.com/comics.php?f=1814>

Figure 1: ...

Figure 2:...

## 5. Read journal's guide for authors

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

# Article's structure and content

## 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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<https://www.wastetodaymagazine.com/article/bird-control-landfill-best-practices>

# Article's structure and content

## 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

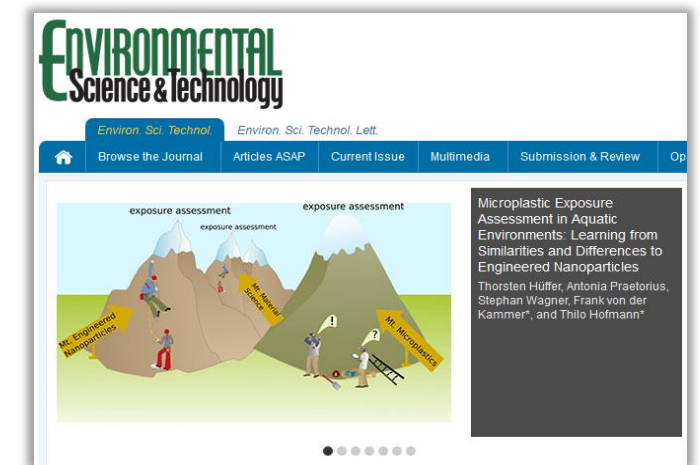
# Article's structure and content

## 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 [figure](#) to get the interest of the reader



# Article's structure and content

## 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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# Article's structure and content

## 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

# Article's structure and content

## 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

# Article's structure and content

## Conclusions

- Short & precise

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



## Acknowledgements

- funding
- software
- help

## References

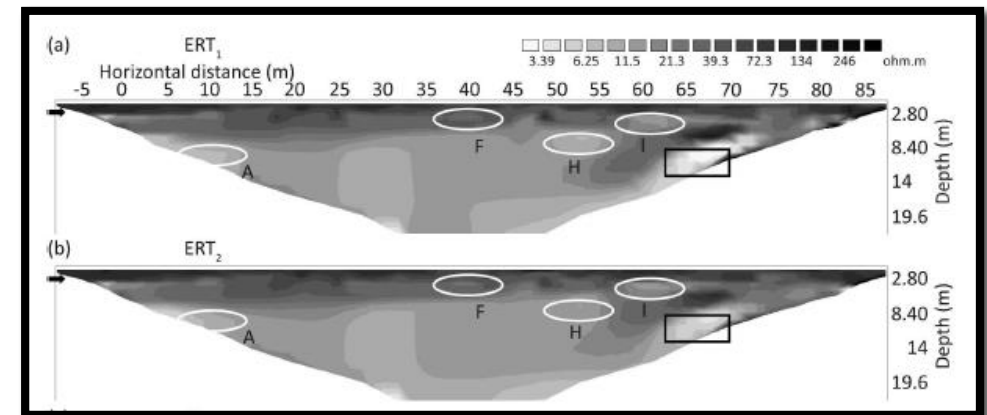
- Use a reference management software
  - which one do you use?
- Do not cite just to cite
- Avoid too many self-citations
- Read the papers you cite

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# Article's structure and content

## 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

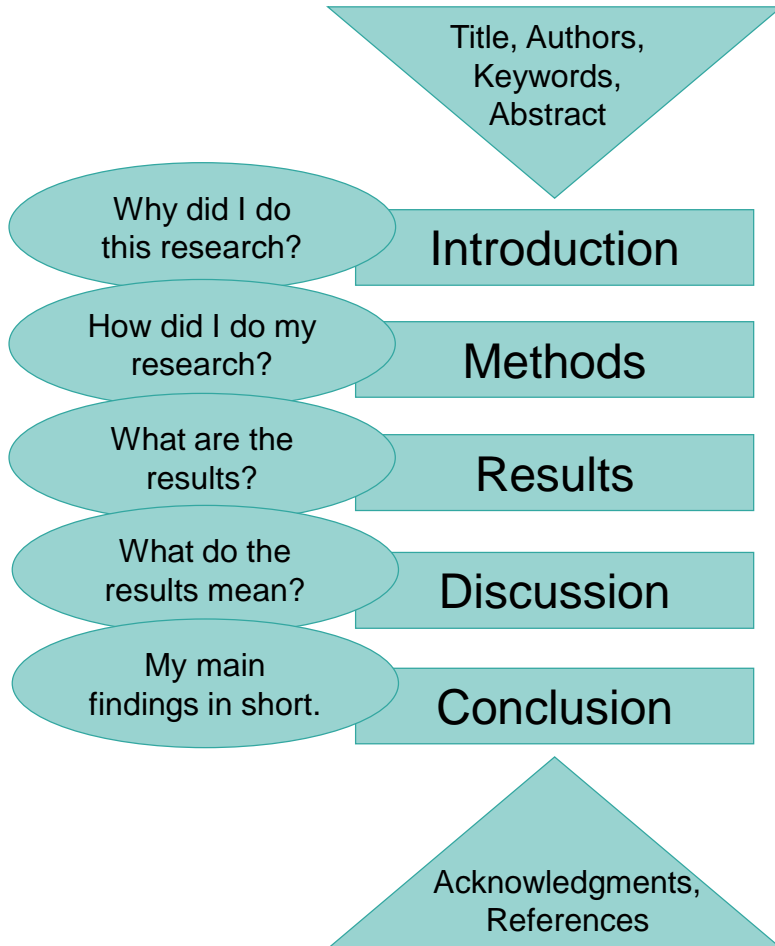


Picture from: Kontantaki, 2016. Doctoral Thesis

# Journal Article

vs

# Review Article



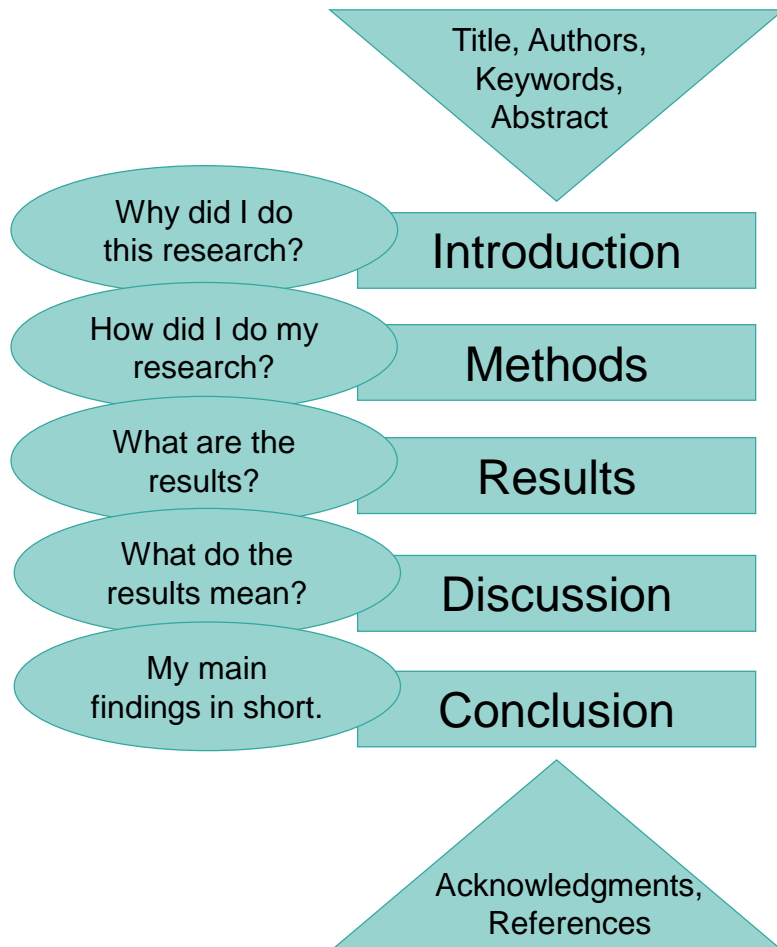
## What is a Review Article?

- 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:

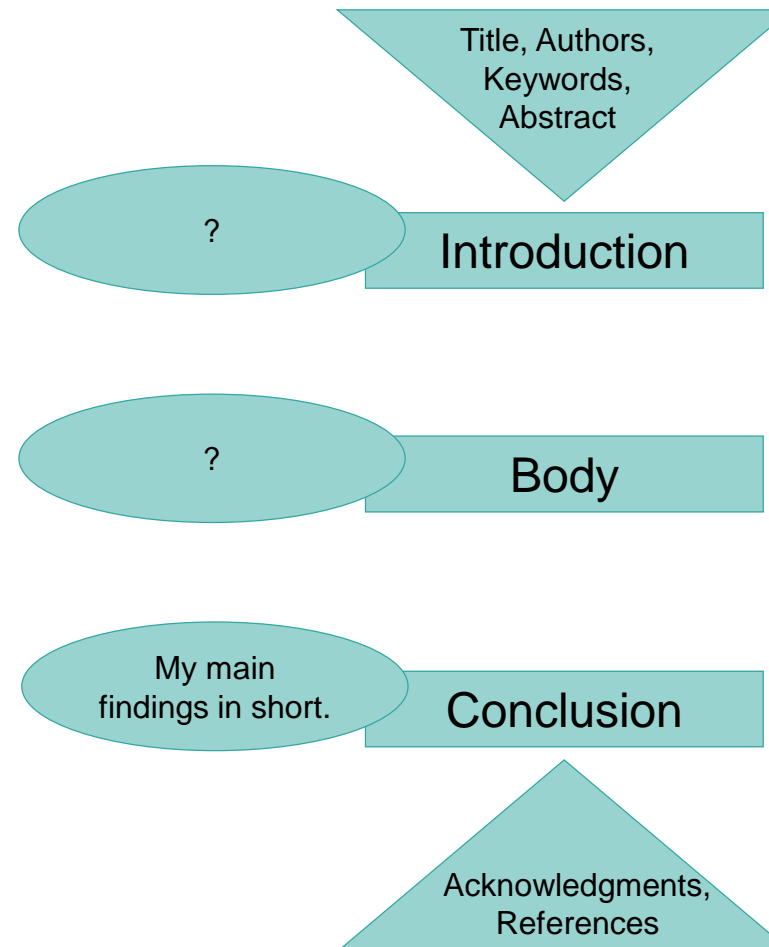
- <https://link.springer.com/article/10.1007/s11747-017-0563-4>
- <https://pdf4pro.com/amp/view/guidelines-review-article-final-eth-z-3b6be0.html>

## Journal Article



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 ([elevator pitch](#))

Some good examples:

[https://graduateschool.nd.edu/assets/76988/elevator\\_pitch\\_8\\_28\\_2012.pdf](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, Geophysics, 78, EN107-EN116; Konstantaki, 2016, Doctoral Thesis.