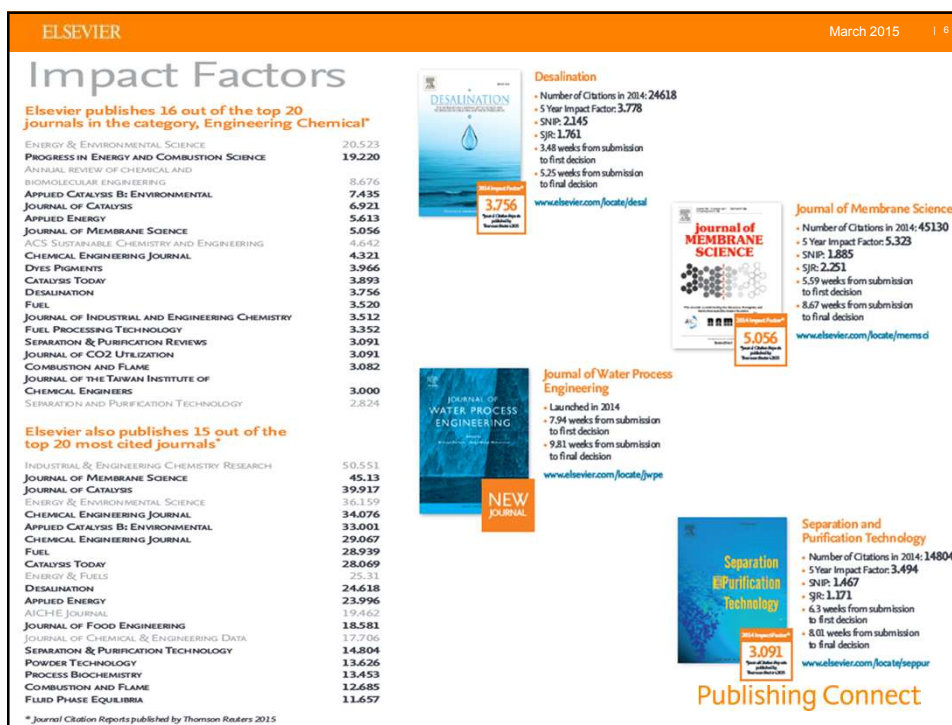
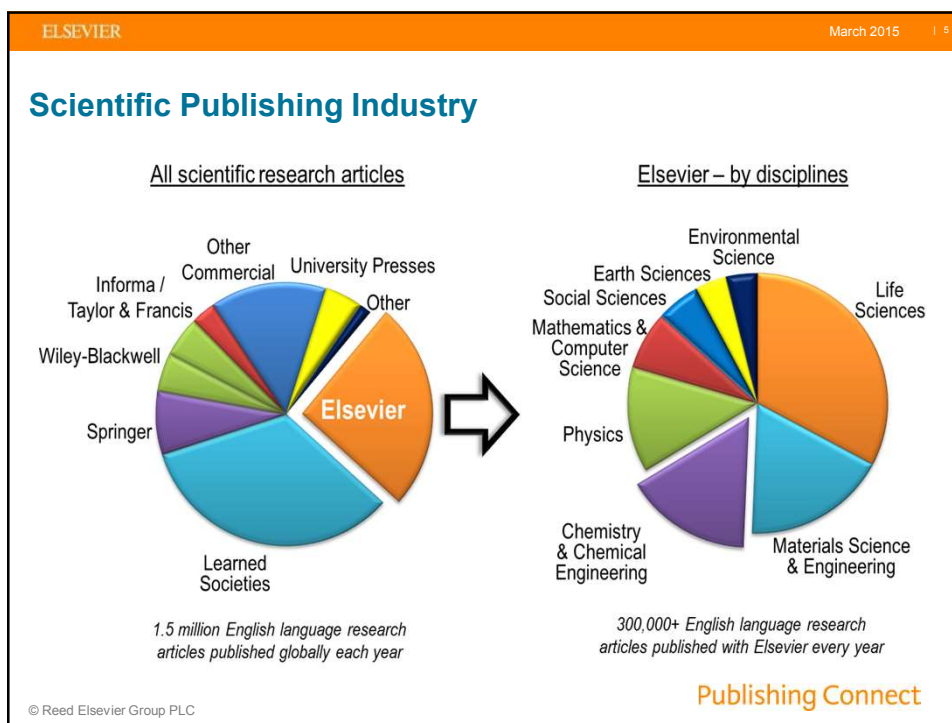
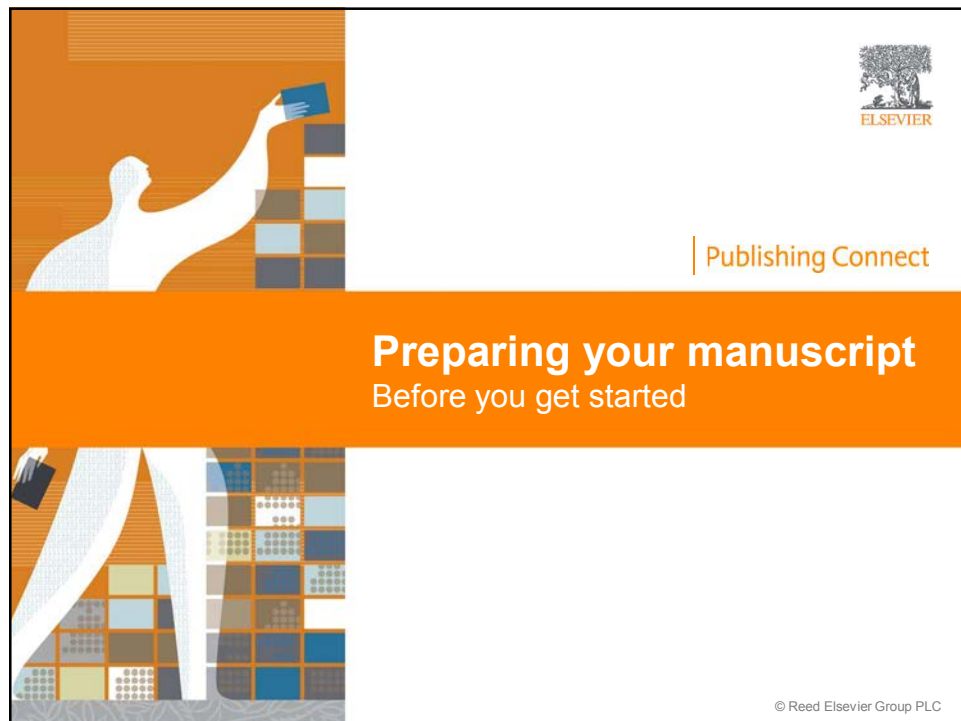
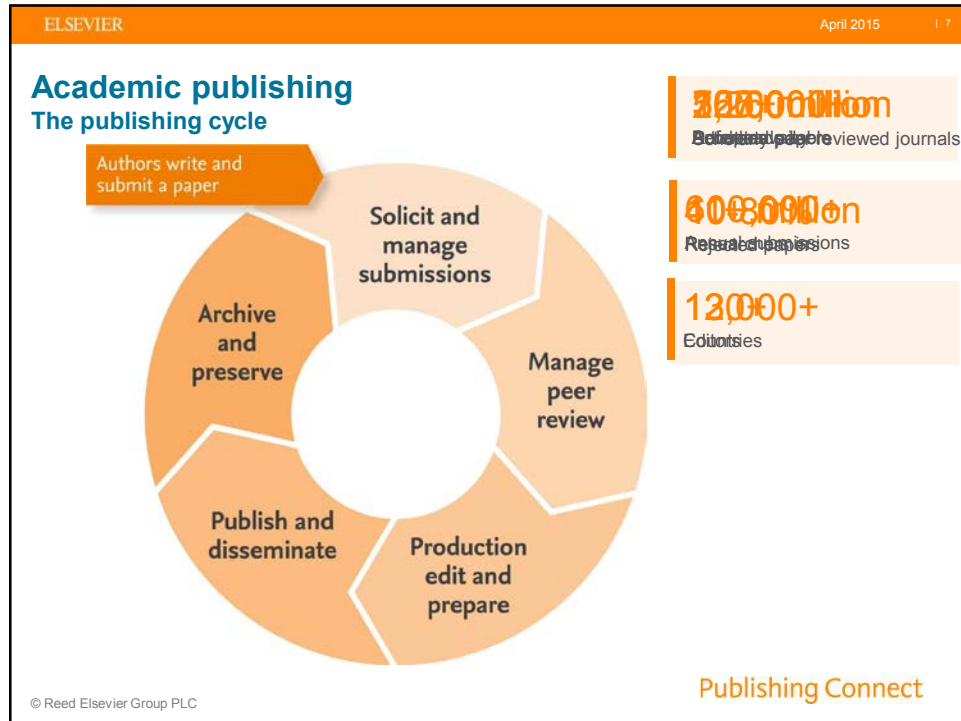


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Why Publish with Elsevier?


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What makes a strong manuscript?







- A clear, useful and exciting message,
 - novelty
 - contribution
- presented and constructed in a logical manner
- allowing readers to easily grasp the significance.

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Types of manuscripts

-  **Full articles**
 - Substantial, complete and comprehensive pieces of research
-  **Letters or short communications**
 - Quick and early communications
-  **Review papers and Current Opinions**
 - Often submitted by invitation
-  **Micro Articles- NEW!**
 - SoftwareX, MethodsX, Data in Brief

Your supervisor or colleagues are also good sources for advice on manuscript types.

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Original Research Articles

- Standard for disseminating completed research findings
- Typically 8-10 pages, 5 figures, 25 references
- Draft and submit the paper to appropriate journal
- Good way to build a scientific research career

Sample Original Research Article Titles

“Hydrodynamic study of a liquid/solid fluidized bed under transverse electromagnetic field”

“Soluble nanoparticles as removable pore templates for the preparation of polymer ultrafiltration membranes”

“Kinetics of pressure oxidative leaching of molybdenite concentrate by nitric acid”

Short Communications

- Quick and early communications of significant, original advances
- Much shorter than full articles.

Sample Short Communications Titles

“A proposed rapid screening technique for new reverse osmosis membranes”

“Dispersion of particulate clusters via the rapid vaporization of interstitial liquid”

Review Articles

- Critical synthesis of a specific research topic
- Typically 10+ pages, 5+ figures, 80 references
- Typically solicited by journal editors
- Good way to consolidate a scientific research career

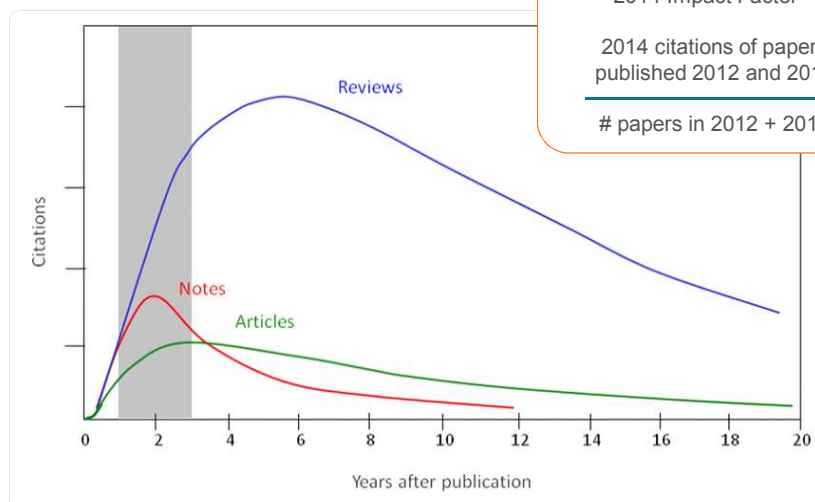
Sample Review Paper Titles

“Polymeric membranes incorporated with metal/metal oxide nanoparticles: A comprehensive review ”

“Boron removal from saline water: a comprehensive review”

“A review of the beneficiation of rare earth element bearing minerals ”

Citations per article type



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Choosing the right journal

Journal Finder Tool (journalfinder.elsevier.com/)

Find the perfect journal for your article

Elsevier® Journal Finder helps you find journals that could be best suited for publishing your scientific article. Powered by the Elsevier Fingerprint Engine™, Elsevier Journal Finder uses smart search technology and field-of-research specific vocabularies to match your article to Elsevier journals.

Simply insert your title and abstract and select the appropriate field-of-research for the best results.

Paper title

Enter your paper title here

Paper abstract

Copy and paste your paper abstract here

Fields of research
Optional: refine your search by selecting up to three research fields

☐ Agriculture ☐ Economics ☐ Materials Science and Engineering
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☐ Chemistry

Filter:

☐ Limit to journals with Open Access options

FIND JOURNAL

Articles in your references will likely lead you to the right journals for consideration.

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Choosing the right journal

Consult the Journal Homepage

Hydrometallurgy
An International Journal devoted to all aspects of the *Applied Research of Metals*

Editor-in-Chief: **Jochen Petersen**
[View full editorial board](#)

[Supports Open Access](#)

Guides for Authors
[Submit Your Paper](#)
[Track Your Paper](#)
[Order Journal](#)
[View Articles](#)

Journal Metrics
 Source Normalized Impact per Paper (SNIP): 2.014
 SCImago Journal Rank (SJR): 1.247
 Impact Factor: 1.993
 5-Year Impact Factor: 1.916

Stay up-to-date
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Special Issues
 Special issues published in Hydrometallurgy:
 18th International Biohydrometallurgy Symposium, IBS2009, Bariloche-Argentina, 13-17 September 2009
 Volume 104, Issues 3-4 (2010)
 Edgardo Donati | Marisa Viera

Recent Open Access Articles
 The latest Open Access articles published in Hydrometallurgy:
 Recovery of platinum group metal value via potassium iodide leaching
 Anant Patel | Richard Dawson
 Comparative study of alkali roasting and leaching of chromite ores and titaniferous minerals
 Stephen Parthenayatra | Lidia Escudero-Castejon | ...
 Effect of Na-chloride on the bioleaching of a chalcopyrite concentrate in shake flasks and stirred tank bioreactors
 Denise Bevilacqua | Heidi Lahti | ...

MY RESEARCH DASHBOARD
 Find out how your publication is being read, shared and cited.
[CLAIM YOUR DASHBOARD](#)
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Most Cited Articles
 The most cited articles published since 2010, extracted from Scopus
 1. Recovery of precious metals through biosorption - A review
 Nilanjana Das
 2. Review of metal sulphide precipitation
 Alison Emslie Lewis
 3. Recovery of gold from secondary sources-A review
 S. Syed



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Recap: the steps I need to take

- Determine
- Decide
- Choose
- Check

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Publishing Connect

Preparing your manuscript

Using proper scientific language

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Why is language important?

- It can delay or block publication of work
- Proper English should be used

"It is quite depressive to think that we are spending millions in grants for people to perform experiments, produce new knowledge, hide this knowledge in an often badly written text and then spend some more millions trying to second guess what the authors really did and found."

Amos Bairoch, Nature Precedings
doi:10.1038/npre.2009.3092.1



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Do publishers correct language?

No!
It is the author's responsibility...

...but **resources** are available

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WebShop
webshop.elsevier.com

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Manuscript language: Overview

- Accurate
- Concise
- Clear
- Objective



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Manuscript language: Sentences

An example of what NOT to do:

“If it is the case, intravenous administration should result in that emulsion has higher intravenous administration retention concentration, but which is not in accordance with the result, and therefore the more rational interpretation should be that SLN with mean diameter of 46nm is greatly different from emulsion with mean diameter of 65 nm in entering tumor, namely, it is probably difficult for emulsion to enter and exit from tumor blood vessel as freely as SLN, which may be caused by the fact that the tumor blood vessel aperture is smaller.”

A possible modification:

“It was expected that the intravenous administration via emulsion would have a higher retention concentration. However, the experimental results suggest otherwise. The SLN entered the tumor blood vessel more easily than the emulsion. This may be due to the smaller aperture of the SLN (46 nm) compared with the aperture of the emulsion (65 nm).”

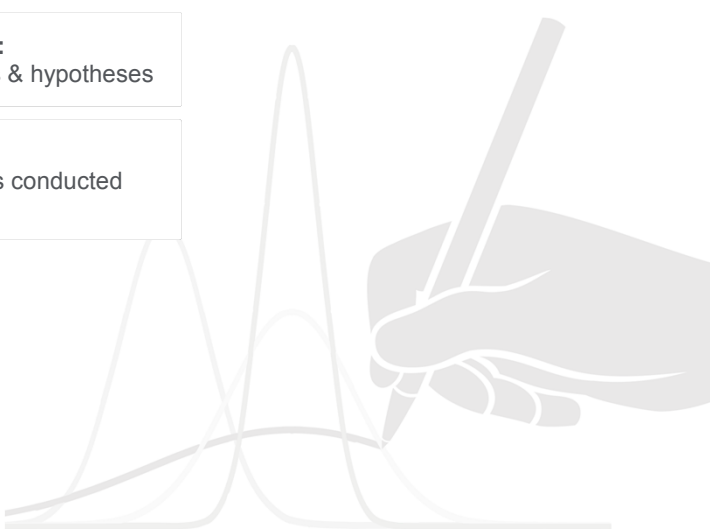
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Manuscript language: Tenses

Present tense:
for known facts & hypotheses

Past tense:
for experiments conducted
& results



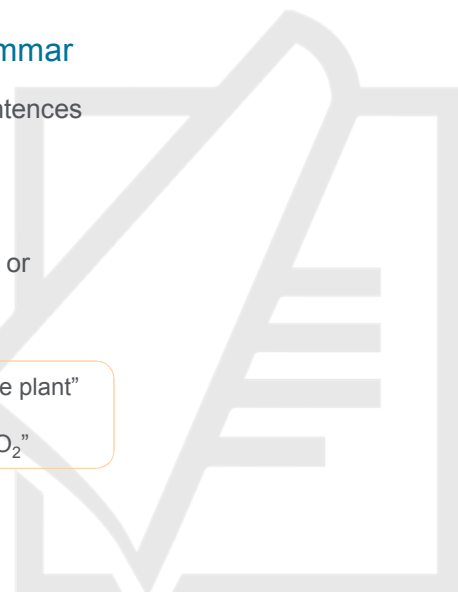
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Manuscript language: Grammar

- Use active voice to shorten sentences
- Avoid abbreviations
- Minimize use of adverbs
- Eliminate redundant phrases
- Double-check unfamiliar words or phrases

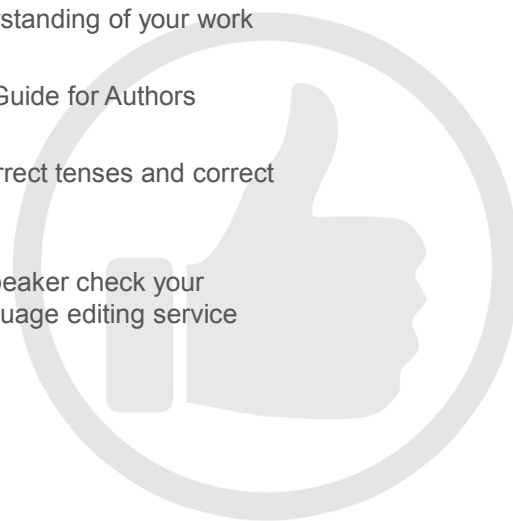
Passive: "CO₂ was consumed by the plant"
versus
Active: "the plant consumed CO₂"



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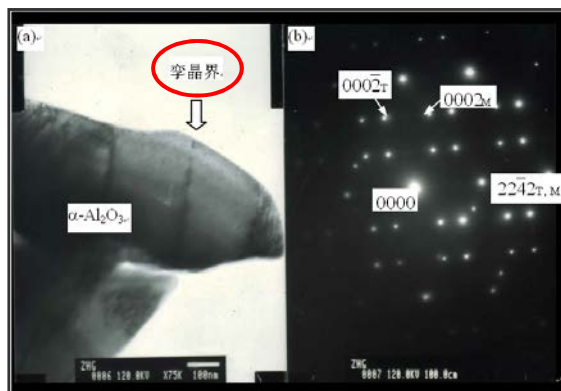
Recap: Am I using proper manuscript language?


- Allows for an easy understanding of your work
- Follow specifications in Guide for Authors
- Use short sentences, correct tenses and correct English grammar
- Have a native English speaker check your manuscript or use a language editing service



Language

Finally, you should use English throughout the manuscript, including figures!





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Preparing your manuscript

Structuring an article

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Guide for Authors

Browse Journals > Minerals Eng... > Guide for authors

Guide for Authors
Author information pack

- Your Paper Your Way
- Referees
- Artwork
- Tables
- References
- Video data
- AudioSlides
- Supplementary material
- Interactive plots
- Submission checklist
- Use of the Digital Object Identifier
- Online proof correction
- Offprints
- AUTHOR INQUIRIES

INTRODUCTION

BEFORE YOU BEGIN

- Ethics in publishing
- Conflict of interest
- Submission declaration and verification
- Changes to authorship
- Article transfer service
- Copyright
- Role of the funding source
- Funding body agreements and policies
- Language (usage and editing services)
- Submission

PREPARATION

- NEW SUBMISSIONS
- REFERENCES
- Formatting requirements
- REVISED SUBMISSIONS
- Article structure
- Essential title page information
- Abstract
- Graphical abstract
- Highlights
- Abbreviations
- Acknowledgements
- Nomenclature and units
- Footnotes

AFTER ACCEPTANCE

Open access

Green open access

Submit your paper

Track your paper

Order journal

View articles

Abstracting/indexing

Editorial board

Reference Simplification

Your Paper, Your Way


content innovation

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General structure of a research article



- Title
- Abstract
- Keywords

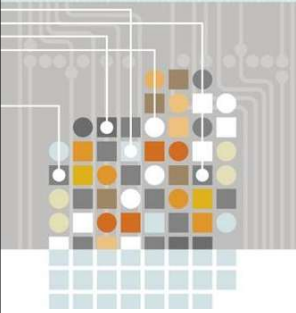
informative, attractive, effective
How do you search for a paper?

Main Text (IMRAD)

- Introduction
- Methods
- Results and Discussion

Make sure each section fulfills its purpose clearly and concisely


- Conclusion
- Acknowledgements
- References
- Supporting materials



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The process of writing – building the article




Title and abstract

Conclusion Introduction

Methods Results Discussion

Figures/Tables (your data)



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Effective manuscript titles

A good title should contain the fewest possible words that adequately describe the content of a paper

- Begin with the subject of the paper
- Identifies main issue of the paper
- Are accurate, unambiguous, specific, and complete
- Are as short as possible
- Does not use rarely-used abbreviations

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Original Title	Revised	Remarks
Preliminary observations on the effect of Zn element on anticorrosion of zinc plating layer	Effect of Zn on anticorrosion of zinc plating layer	Long title distracts readers. Remove all <u>redundancies</u> such as "observations on", "the nature of", etc.
Action of antibiotics on bacteria	Inhibition of growth of mycobacterium tuberculosis by streptomycin	Titles should be <u>specific</u> . Think to yourself: "How will I search for this piece of information?" when you design the title.
Fabrication of carbon/CdS coaxial nanofibers displaying optical and electrical properties via electrospinning carbon	Electrospinning of carbon/CdS coaxial nanofibers with optical and electrical properties	"English needs help. The title is nonsense. All materials have properties of all varieties. You could examine my hair for its electrical and optical properties! You MUST be specific. I haven't read the paper but I suspect there is something special about these properties, otherwise why would you be reporting them?" – the Editor-in-chief

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Keywords

- Are used by indexing and abstracting services
- Are the labels of the manuscript
- Should complement the keywords in the title
- Use only established abbreviations (e.g. DNA)

Article title	Keywords
"Electrochemical bioleaching of high grade chalcopyrite flotation concentrates in a stirred bioreactor" <small>doi:10.1016/j.hydromet.2010.05.001</small>	Acidophilic bacteria; Bioreactor; Chalcopyrite; Electrochemical bioleaching

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Abstract

- This is the advertisement of your article
- A clear abstract will strongly influence whether or not your work is considered
- Make it interesting and understandable
 - What has been done?
 - What are the main findings?
- Most publishers make the abstract freely available**

Follow the Rule of 10

1-2 sentences: aim

2-3 sentences: materials & methods

2-3 sentences: results

2 sentences: discussion/conclusions

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Graphical Abstracts and Research Highlights

Effect of pH on Cu, Ni and Zn removal by biogenic sulfide precipitation in an inversed fluidized bed bioreactor Original Research Article
Pages 94-100
Suthee Janyasuthiwong, Eldon R. Rene, Giovanni Esposito, Piet N.L. Lens
Close research highlights PDF (919 K)

Highlights

- pH affects sulfide production and metal precipitation in an inversed fluidized bed (IFB) reactor.
- More than 97% of Cu and 94.0% of Zn were removed at pH 5.0.

Numerical and experimental investigation of single phase flow characteristics in stirred tanks using Rushton turbine and flotation impeller Original Research Article
Pages 166-167
Manjunath Basavarajappa, Teri Draper, Pal Toth, Terry A. Ring, Sanja Miskovic
Abstract Close graphical abstract Research highlights PDF (2409 K)

Swirling strength contour

Power number vs. Re

PIV velocity vector plot

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Introduction

- You are telling a story. Introduction sets the scenario.
- Do not attempt to summarize the whole field (it is not possible!)
- Quote what is necessary for background and to give credit to previous works. Do not add superfluous references.
 - Editors may choose reviewers from cited work

Introduction is especially important!

A high proportion of “lack of novelty” rejections are made after reading the abstract, introduction and conclusions.

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Introduction (continued)

- Give a clear **motivation** for the work. *Explain why before explaining how.*
- Explain what is **novel** compared to what is already available in the *literature*
- High level description of your approach. Why is it *important*? Why is it *difficult*?
- What are the *alternatives*? Why is yours **different** or **better**?
- What are the gaps and how are you going to fill them? *What is your “silver bullet”?*
- At the end of the introduction the *reader knows the problem* and maybe the *solution you propose*

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Introduction Recap



Provide a brief context to the readers	You are telling a story. Introduction sets the scenario.
Address the problem	Do not attempt to summarize the whole field (it is not possible!)
Identify the solutions and limitations	What is your motivation? What are the gaps in knowledge?
Indicate novelty of approach	Why is your approach different or better? How do you plan to fill the gaps?
Offer clear hypothesis and proposed solution	At the end of the introduction, the reader should <i>know the problem</i> and the <i>solution you propose</i> .

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Methods

- Include detailed information. The reader should be able to reproduce the experiment.
- Previously published procedures need not be described in depth:
 - Cite methods and note any changes to the protocol and/or
 - Provide detailed methods in Supplemental Material
- Identify the equipment and materials used
 - Provide source and related product information (company, molec. weight, etc.)
- Write out full chemical/biological compound names (followed by abbr.) then use abbreviations throughout paper
 - Make sure that all symbols are defined.

Describe how the problem was studied




Ethics committee approval

- Experiments on humans or animals must follow applicable ethics standards
- Approval of the local ethics committee is required and should be specified in the manuscript, covering letter or the online submission system
- Editors can make their own decisions on ethics

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Methods Recap



- Describe how the problem was studied
- Include detailed information
- Do not describe previously published procedures
- Identify the equipment and describe materials used

- Provide source and related product information (company, molec. weight, etc.)
- Write out full chemical and biological compound names first (followed by abbreviation).
- Make sure that all symbols are defined.
- Check Guide for Authors regarding formatting of 'units'

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Results

- The main findings
 - Analytical description of data from experiments described in the Methods section.
 - Findings/data of secondary importance should be captured in Supplementary Materials
 - Minimal interpretation of results and/or comparison with literature unless the journal combines the Results and Discussion sections
- Results of the statistical analysis
- Figures and tables

You are telling a story.
Keep the narrative flowing, concise, well organized.

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Results: Figures and Tables

- Figures and tables are the **most efficient way** to present results
 - Results should be presented in a non-redundant way
- Captions and legends should be **self-explanatory**; figures should be able to **stand alone**
 - What is the take home point?*
- Maximize space**; make sure final versions of figures can be easily read (watch use of legends)
- Use **consistent formatting** between figures
 - Plots: labels, scale and symbols
 - Micrographs: scale bar, point out key features

Results: Figures



Journal of Membrane Science

Volume 481, 1 May 2015, Pages 1–8



Permeability thickness dependence of polydimethylsiloxane (PDMS) membranes

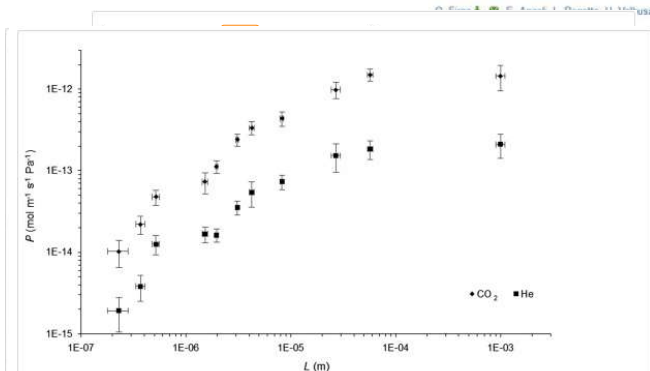


Fig. 6.

PDMS permeability P against thickness membrane L ■ He/PDMS and • CO₂/PDMS. Section 2 reports error analysis. The upstream pressure is $p_u = 9 \times 10^4$ Pa, the temperature $T = 293$ K.

Figure options

(continuous line) (c) CO₂/PDMS data compared with model B (dotted line) (d) He/PDMS data compared with model B (dotted line).

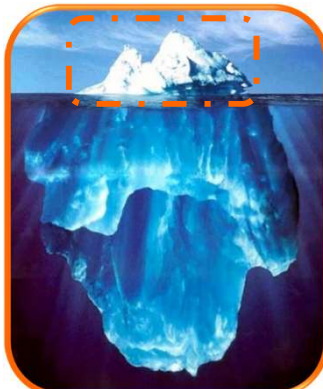
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Results - Recap

- Be clear and easy to understand
- Highlight the main findings
- Feature unexpected findings
- Provide statistical analysis
- Include illustrations and figures

Analytical description of data with minimal interpretation of results and/or comparison with literature
This is not a thesis!

Do not try to fit everything in!



Contributed by Diego Gutierrez

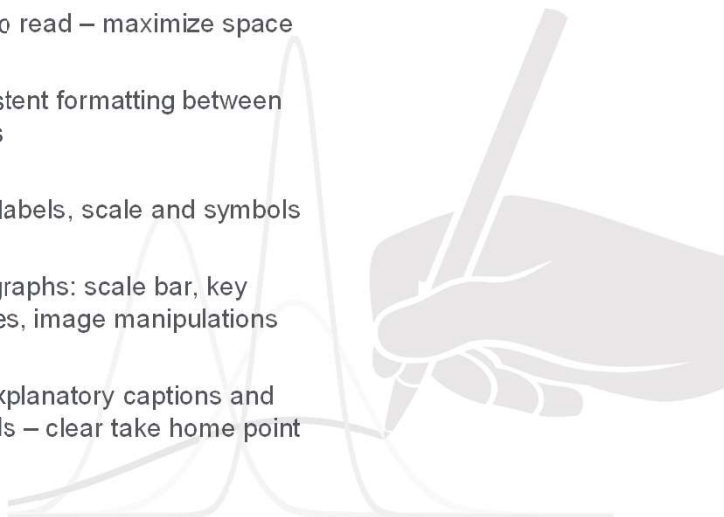
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Figures and Tables – Recap

- Easy to read – maximize space
- Consistent formatting between figures
- Plots: labels, scale and symbols
- Micrographs: scale bar, key features, image manipulations
- Self-explanatory captions and legends – clear take home point

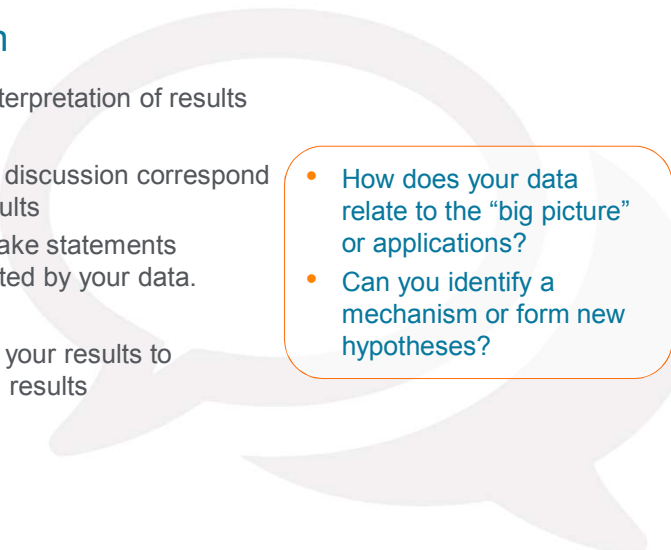


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Discussion



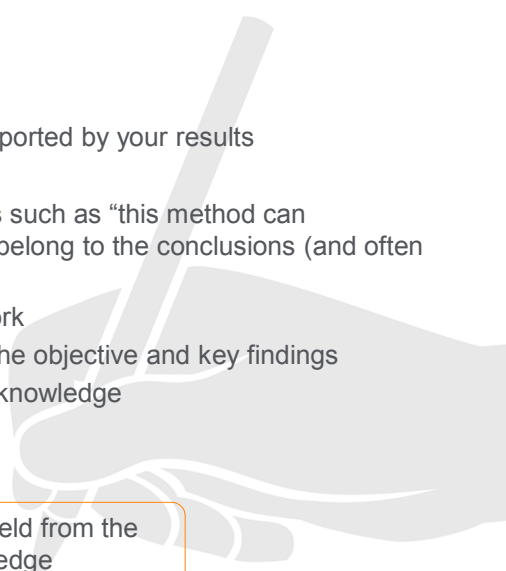
- Critical interpretation of results
- Make the discussion correspond to the results
- Do not make statements unsupported by your data.
- Compare your results to published results

- How does your data relate to the “big picture” or applications?
- Can you identify a mechanism or form new hypotheses?

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Conclusion



- Not the same as a summary!
- Give conclusions that are supported by your results
- Try to end in a positive tone
- Do not overreach. Statements such as “this method can potentially be used...” do not belong to the conclusions (and often irritate referees)
- Provide justification for the work
 - Relationship between the objective and key findings
- Advance the present state of knowledge
- Suggest future experiments

How the work advances the field from the present state of knowledge

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Acknowledgments

- Advisors and undergrad. support
- Financial supporters and funders
- Proof readers and typists
- Suppliers who may have donated materials

Ensures those who helped in the research are recognized

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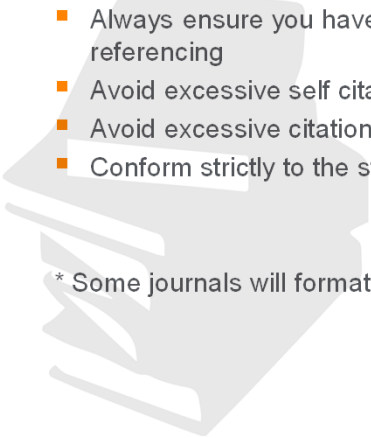
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References

- Cite the main scientific publications on which your work is based
- Do not use too many references
- Always ensure you have fully absorbed material you are referencing
- Avoid excessive self citations
- Avoid excessive citations of publications from the same region
- Conform strictly to the style given in the guide for authors*

* Some journals will format references for you!



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Authorship

General principles for who is listed first

- First Author
 - Generally conducts and/or supervises data generation
 - Sometimes puts paper together and submits to journal
- Corresponding author
 - The first author or a senior author from the institution. Considered “mainly responsible” for the contents (but responsibility is shared!).
 - Somebody with a permanent e-mail address!
 - Sometimes puts paper together and submits to journal

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Authorship

✓ Corresponding author	✗ Ghost authorship
✓ First author	✗ Gift authorship
✓ Good listing principle – spelling of names	✗ Poor listing procedure

The International Committee of Medical Journal Editors (Vancouver Group) declared that an author must:

1. **substantially contribute** to conception and design, or acquisition of data, or analysis and interpretation of data;
2. **draft** the article or **revise** it critically for important intellectual content; and
3. **give their approval** of the final version to be published.
4. **ALL 3 conditions** must be fulfilled to be an author!

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Now that you think you have finished...

- Read the paper again and circulate to all co-authors. Be critical yourself and accept criticism from others.
- Show it to your advisors
- Try to be in the position of a reader/reviewer.
- Forget what you know, read only what is written. Yes, it is difficult. Just keep trying.
- If possible, have someone else you trust to comment on the paper.
- If you need to explain something verbally, then you probably need to rewrite that part.

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Cover Letter – very important!

- Your chance to speak directly to the editors
- Explain the main findings and motivation
- Highlight novelty and significance of results
- State final approval of all co-authors
- State prior reviews, revisions, etc.
- Note any special requirements
 - Referees: experts, not collaborators
- State any conflicts of interest

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Cover Letter

Professor H. D. Schmidt
School of Science and Engineering
Northeast State University
College Park, MI 10000
USA

Dear Professor Schmidt,

Enclosed with this letter you will find an elect entitled "Mechano-sorptive creep under compres model" by John Smith and myself. This is an previously nor simultaneously in whole or in pa Both authors have read and approved the final ver

Mechano-sorptive is sometimes denoted as . experimentally observed that the creep of paper cyclic moisture content; This is of large practical. The present manuscript describes a micromecha level that is able to capture the experimentally obi difference between mechano-sorptive creep in ter John Smith is a PhD-student who within a year v present paper will be a part of that thesis.

Three potential independent reviewers who have e this paper are:

Dr. Fernandez, Tennessee Tech, email1@university
Dr. Chen, University of Maine, email2@university.i
Dr. Singh, Colorado School of Mines, email3@univ

I would very much appreciate if you would consid the *International Journal of Science*.

Final approval from all authors

Explanation of importance of research

Suggested reviewers

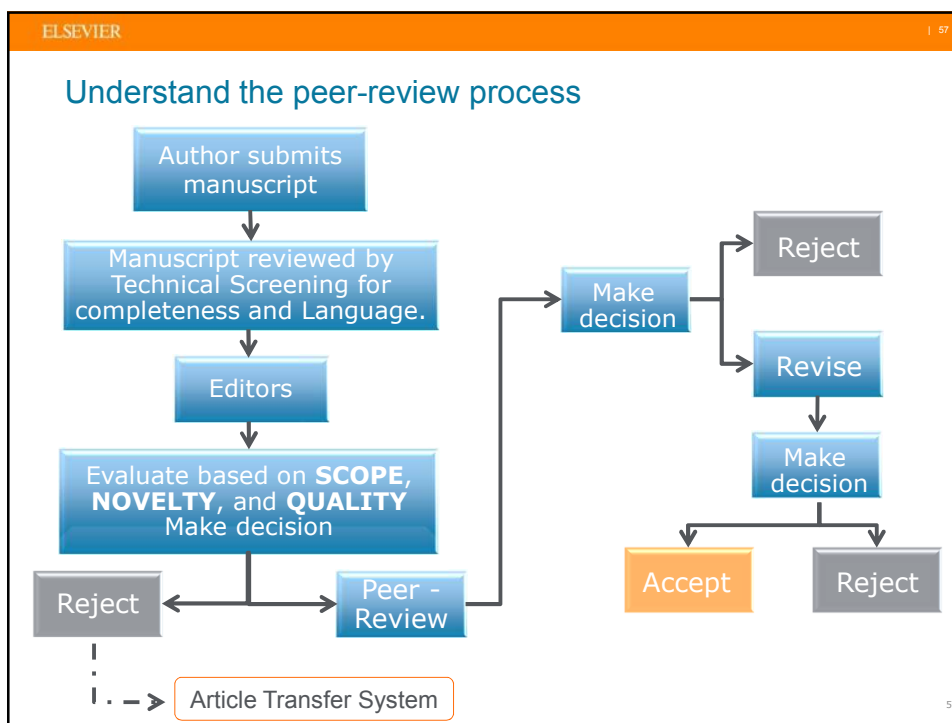
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Peer-Review

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Peer Review

- Helps to determine the quality, validity, significance, and originality of research
- Helps to improve the quality of papers
- Publishers are outside the academic process and are not prone to prejudice or favour
- Publishers facilitate the review process by investing in online review systems and providing tools to help Editors and Reviewers

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Peer Review Decisions


- Rejection
 - Learn from feedback provided and improve work for re-submission
- Minor Revision
 - Good job. Make the edits and resubmit quickly.
- Major Revision
 - Answer comments, one by one, and explain changes made or not made
 - If you feel a remark is not justified or a request is unreasonable, say so, but substantiate your response.
 - Submit a revised version highlighting where changes have been made

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After Acceptance

- Be diligent with any last minute requests (e.g. quality of figures, format adjustments).
- Return the proofs quickly. But make sure you revise them thoroughly (it is your last chance to correct any mistakes before your manuscript is published)




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What leads to acceptance???

- Attention to details
- Check and double check your work
- Consider the reviewers' comments
- English must be as good as possible
- Presentation is important
- Take your time with revision
- Acknowledge those who have helped you
- New, original and previously unpublished
- Critically evaluate your own manuscript
- Ethical rules must be obeyed



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Thank you

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