Prepare your manuscript this way

Title

The title is the main advertisement for your article. A great title entices the audience to read on; a poorly-titled article may never reach its target readers.

Your article's title should reflect its content clearly, enabling readers to decide whether it's relevant for them. Make the title catchy and keep it specifc. Leave out phrases such as 'a study of', 'investigations into' 'observations on'; and avoid using abbreviations and jargon.

depend Remember, too. that abstracting and indexing services on accurate they extract keywords from them for cross-referencing. titles;

Why 'The effect of heating the albumen and vitellus of the Gallus gallus domesticus contained in calcium carbonate in H2O to 373.15 K' when 'Boiling a chicken egg in water' says it?

Essentially, effective titles:

- Identify the article's main issue.
- Begin with the article's subject matter.
- Are accurate, unambiguous, specifc and (when possible) complete.
- Are as short as possible.
- Are enticing and interesting; they make people want to read further.

Authors

who've made intellectual contribution to the research an be credited: those who'll take responsibility the data for and conclusions. and who've approved the fnal manuscript. The order disciplines; credited names vary between the corresponding can may not always be the frst author.

Keyword list

Most journals request a list of keywords; important words that, along with those in the title, capture the research effectively. Keywords are used by abstracting and indexing services; choosing the right ones can increase the chances of your article being found by other researchers.

Many Elsevier journals also ask for a subject classification during the online submission process; this helps editors to select reviewers.

Abstract

The abstract is your chance to describe your research in 200 words so use it wisely. Together, the title and abstract should be able to fully represent your article, including for use by indexing services. Many write the abstract last, it reflects the content accurately. SO The abstract should summarize the problem or objective of your research, its method, results, and conclusions. Usually an abstract doesn't include references, fgures or tables. It should mention each significant section of the article, with enough detail for readers to decide whether or not to read the whole paper. While it's great to make the abstract interesting, above all it should be accurate. Don't promise more than your article delivers.

The body of the text

Make the introduction brief. It should provide context and background, a history lesson. It should state the problem be investigated, its contextual background, and reasons for conducting the State the questions you're explain research. answering you're challenging fndings of others that or furthering. Briefly and reader to your hypotheses, logically lead the research questions, and experimental design or method.

Method

Materials Methods or **Experimental** (also called and section should be detailed enough that readers can replicate your assess whether the methods justify the conclusions. and advisable to use the past tense - it's about what you did - and avoid using the frst person, although this will vary from journal to journal. Ultimately, you should explain how you studied the problem, identify the this information as logically procedures you followed, and structure possible.

If your methods are new, you'll need to explain them in detail. If they've been published before, cite the original work, including you've amendments if made modifications. Identify the equipment and the materials you used. specifying their source. State frequency of observations and what types of data were recorded. Give strengths measurements, stating their and weaknesses when necessary. Name any statistical tests, so your quantitative results can be judged.

involved human participants, research animals, stem or biohazard materials, you'll need to include certain information in the ethics statement, such as committee approvals and permission to publish. You should also explain your criteria for selecting participants.

Results

This section should present your fndings objectively, explaining your results contribute them largely in text. It's where you show how to the body of scientifc knowledge, so be clear and logical. And it's important not to interpret your results - that comes in the Discussion & Conclusions section.

You can base the sequence of this text on the tables, fgures and graphs signifcant present your fndings. **Emphasize** any fndings that clearly. Tables and fgures must be numbered separately; fgures should have a brief but complete description - a legend - that reveals how the data was produced.

Discussion & Conclusions

This is where you describe the meaning of your results, especially in the context of what was already known about the subject. You can present general and specifc conclusions, but take care not to summarize your article – that's what the abstract is for.

You should link this section back the introduction, to referring hypotheses, and cover how questions or the results relate to your cited expectations and sources. Do the results support or contradict existing theories? Are there any limitations? You can also suggest further experiments, uses and extensions.

Above all, discussion should explain how your research has the moved body of scientifc knowledge forward. Your conclusions the must supportable and not extend beyond your results. SO avoid undue speculation and bold judgments about impact. This is also a good place to suggest practical applications for your results, and to outline what the next steps in your research will be.

To summarize, make sure that:

- Your results directly support your conclusions.
- You use specific expressions and quantitative descriptions '12 degrees higher' instead of 'a higher temperature'.
- You only discuss what you defined early in the paper don't introduce

the reader to a whole new vocabulary. If you missed an important term, go back to the introduction and insert it.

• All interpretations and speculations are based on fact, not imagination.

Acknowledgments

brief. Keep acknowledgements naming those who helped with vour research; contributors, or suppliers who provided free materials. You should also disclose any fnancial or other substantive conflict of interest that could be seen to influence your results or interpretations.

References

New research builds on previously published work, which should always be acknowledged. Any information that isn't 'common knowledge', or generated by your experiments, must be recognized with a citation; and quoted text should be within quotation marks, and include a reference. The format of citations and references varies, so you should refer to the Guide for Authors for the journal you're submitting to.

LANGUAGE QUALITY

A scientifc article should report your findings and conclusions as clearly and concisely as possible. To achieve this:

- Try to avoid unnecessary words or phrases keep it simple.
- Use active writing when possible. For example, 'Carbon dioxide was consumed by the plant' is passive. Active writing shortens this phrase to, 'The plant consumed carbon dioxide' which is much snappier.
- Tense is important. For known facts and hypotheses, use the present tense: 'The average life expectancy of a honey bee is six weeks.' But use the past tense when referring to experiments you've conducted: 'All the honey bees were maintained in an environment with a consistent temperature of 23°C.' And also use the past tense to describe results: 'The average life span of bees in our contained environment was eight weeks.'

ILLUSTRATIONS

Submitting any illustrations, fgures or other artwork – like multimedia— in an electronic forma tmeans that we can produce your work to the best possible standard, ensuring accuracy, clarity and a high level of detail.

ETHICS

Understanding the boundaries in scientifc research and publishing is a key step in making sure your work gets off to the best start. Scientifc misconduct and breach of publishing ethics can take different forms, and be committed knowingly or unknowingly. Examples of misconduct and breaches include:

- Authorship disputes deliberately misrepresenting a scientist's relationship with published work.
- Conflict of interest not disclosing to a journal that you have a direct or indirect conflict which prevents you from being unbiased.
- Plagiarism passing off another's work or idea as your own.
- **Simultaneous submission** submitting a paper to more than one publication at the same time.
- **Research fraud** including fabrication (making up research data) and falsification (manipulating research data, tables or images).
- **Salami slicing** the 'slicing-up' of research that would form one meaningful paper into several different papers.

SEO YOUR ARTICLE

Engine **Optimization** (SEO) helps ensure that article to your appears higher in the results returned by search engines such as Google. This can mean you attract more readers, gain higher visibility academic community, and potentially increase citations.

Tips for SEO include:

- Use keywords, especially in the title and abstract.
- Add captions with keywords to all photographs, images, graphs and tables.
- Add titles or subheadings (with keywords) to the different sections of your
- Make sure you place links to your article from relevant websites e.g. your institue's website, Wikipedia, LinkedIn, blogs and social media.