

MANAGEMENT OF SCIENTIFIC RESEARCH FROM THE PERSPECTIVE OF RESEARCHERS. WRITING AN ARTICLE THAT CAN BE PUBLISHED IN A HIGH-QUALITY JOURNAL

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ABSTRACT: Scientific research is an original investigation, an action undertaken with the aim of acquiring new scientific knowledge. In order to increase intellectual productivity, management in the field of scientific research is implemented. The results of scientific research are presented at scientific conferences and published in journals indexed in different databases. The paper presents the implementation of Scientific Research Management by researchers to develop a publishable article in a high-quality journal. This article concludes with future research directions, resulting from the current topic presented.

KEY WORDS: scientific research, scientific research management, researcher, publishable article, journal of high quality

1. INTRODUCTION

To research means to examine carefully, to observe, to consult, to control, to question, to try to find out, to study, to ask, to see. The research activity is carried out by the researcher, who represents the person specialized to carry out scientific research. The researcher is a scientist [14], [15].

The knowledge economy, implemented today, is based on scientific research and investment in: human and intellectual capital, in researchers and graduates [1].

In today's digital age, research also requires appropriate tools to manage large volumes of data, especially if you want to develop complex, multidisciplinary research articles with an international theme [3]. Artificial intelligence, correctly used, can also improve research [6], [12].

Digital transformation in all fields has also influenced the management of scientific research [7].

Chat GPT is an artificial intelligence tool, widely introduced since 2022 and which is also used in the process of scientific research and writing scientific papers. The potential advantages and risks of this modern digital tool are still being discussed .

Applied management in the field of scientific research increases intellectual

productivity, increases the level of competitiveness and research capacity of researchers and universities.

The implementation of scientific research management is a challenge for both developed countries (where research systems have existed for a long time) and less developed countries [11]. Now, however, the problems are common: international competition, commercialization of research. However, in less developed countries, specific problems arise such as: the need to strengthen research capacities (infrastructure, organisational models that allow research to bring national and international benefits), ways of funding research, career models in scientific research, intellectual property rights, ways of commercialising scientific research [4], [8].

At present, the importance of scientific research, innovation, in generating economic growth, sustainable development is emphasized. The aim is to globalise activities: research, education, innovation, in order to attract and develop new talents. The collaboration between the fields of research - education - production will lead to the optimization of the use of resources. The role of universities is seen as facilitating the transition to knowledge-based economic models, but also to governance models that

adapt and facilitate cooperation, knowledge transfer [1].

The academic world has come to give increasing importance to the indicators of journals, the quartiles in which journals are classified, the indexing of journals in the Web of Science Core Collection [16].

And yet, how does a researcher come up with an article to publish in a high-quality journal? We will answer this question below.

2. WRITING AN ARTICLE THAT CAN BE PUBLISHED IN A HIGH-QUALITY JOURNAL

Scientific research can be research that aims to develop scientific knowledge and applied research, which contributes to solving practical problems [5].

The global challenges of the times in which we live: climate change, reducing inequalities, water scarcity, etc. require in-depth studies by researchers. In the process of scientific research, it is necessary to take into account two elements: scientific freedom, but also scientific responsibility [13].

Writing and writing a paper that is accepted for publication in a quality journal is not an easy job. It is necessary, at the beginning of the research, to establish the journals that publish articles in the field in which the future article is located [2].

A quality article must tell a story, have a scientific basis and bring news. It must be based on existing studies in the field of research, have a methodology, be written clearly, concisely, meet the conditions for publication and convey a message. Some of the directions to follow in order to write a quality article are [10]:

- ✚ the article should be written with respect for the reader (i.e. it should be as easy to understand as possible);
- ✚ the message conveyed must be convincing, strong;
- ✚ the work must be like an academic narrative, with an introduction, a table of contents, which then takes the story of the work to the end;
- ✚ the organization of ideas must be clear, without returning to the subject or repeating the details;

- ✚ there are several types of writing: exploratory, explanatory, synthesis articles;
- ✚ it is important to establish the scope of study of the article;
- ✚ before writing the article, we must select the journal where we want to publish and know the writing instructions;
- ✚ the sentences must be simple and the words chosen must reflect as accurately as possible what we want to convey;
- ✚ the translation of the article must be done by professionals in the field;
- ✚ it starts with the message that the article wants to convey, continuing with the context, the approach to the problem, and at the end the proposed solution is offered, discovered;
- ✚ there must be a connection between paragraphs;
- ✚ it is necessary to establish the target audience to which the article is addressed;
- ✚ writing is a skill that is learned, it takes years of practice, to have the necessary skill;
- ✚ it always starts with an outline of the work;
- ✚ it is absolutely necessary that the paper falls within the scope of the journal, otherwise it will be quickly rejected as inappropriate;
- ✚ the writing instructions specific to the chosen journal must be followed;
- ✚ the articles must be original, not plagiarized or self-plagiarized;
- ✚ it is necessary that the submitted article makes a good first impression, that is, it must be: well written, easy to follow, without grammatical errors;
- ✚ the title and keywords must be carefully selected;
- ✚ special attention is paid to: the cover letter, the title of the article, the abstract, the chosen keywords (which should capture as wide a thematic area as possible, but from the field of the chosen journal);

Practice, however, remains the key to success.

In conclusion, there are a few goals to achieve in order to have an article publishable in highly rated journals [13]:

- + easy-to-understand story, well-written article;
- + clear message, well-argued conclusions;
- + methodology and data analysis, adequately carried out;

- + explain how the article covers gaps in the field of research;
- + bibliographic references should be as up-to-date as possible;
- + the message of the article should be addressed to a relatively wide audience.

A necessary mind map, drawn up to write a publishable article in a top journal, is shown in Fig. 1.

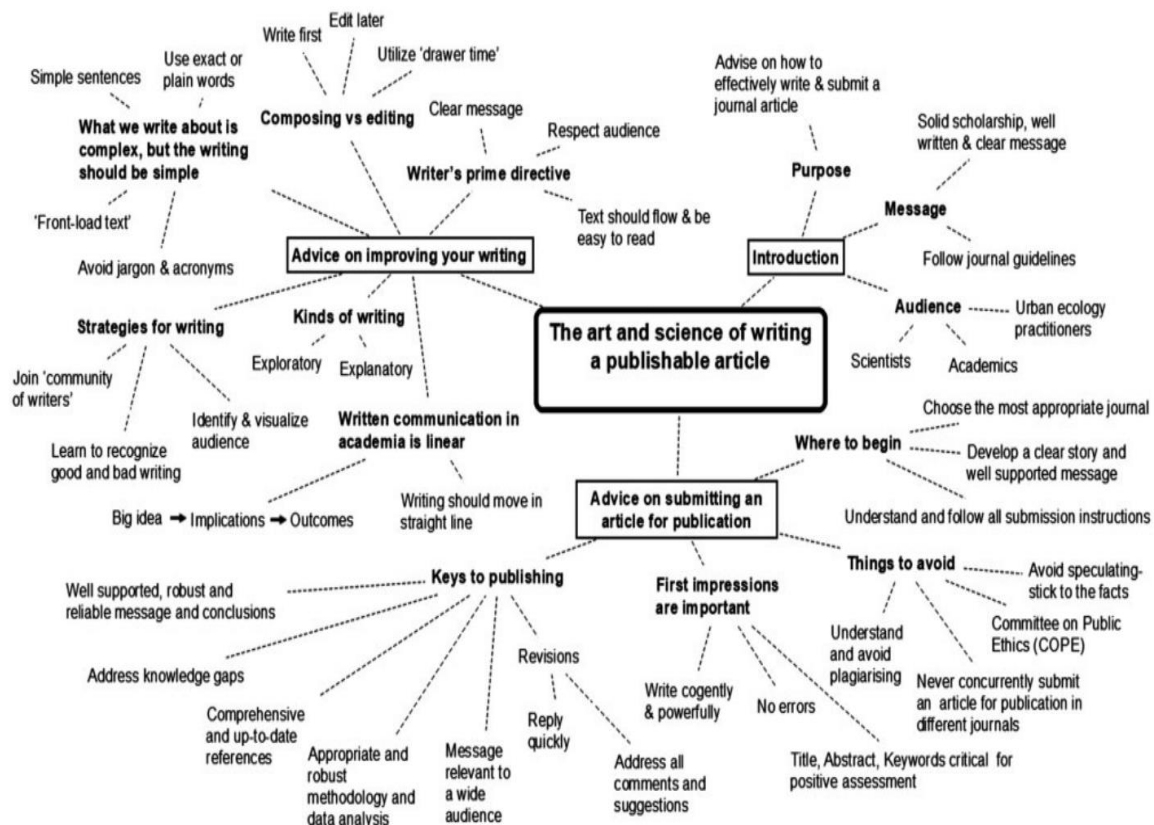


Figure 1. The general mind map, necessary to write an article that can be published in an important journal

Source: Pickett, S. T., & McDonnell, M. J. (2017). The art and science of writing a publishable article. Journal of Urban Ecology, 3(1), jux018, p. 4

A scientific article must be a synthesis of current scientific literature, combined with original ideas, which offers new perspectives for the development of the topic in the future. We do not forget that the article is addressed first of all to professionals in the field and then to the general public. There is no perfect recipe for developing a high-quality article, but the closer we are to the standards of scientific writing, the more research work will be

recognized and accepted by the scientific community, and its value will be recognized.

Many researchers possess the science and art of publishing successful articles in prestigious journals. Research has become extremely important, especially for researchers, hence the expression: public, therefore existent [13].

3. CONCLUSIONS

Scientific research is both an art and a science, which requires, in order to be successful, the completion of several stages. The journal where the future article is to be published is carefully chosen. A mental map of the article is drawn up. Only then do we move on to writing the paper. The story should be written in such a way that it is easy to understand. The message, which is intended to be conveyed, must be clear, with well-argued conclusions. The methodology and data analysis must be done with scientific tools, and explained as clearly as possible. The article must come up with news that covers the gaps of previous research in the field. The target audience to which the article is addressed must be relatively broad. The sources of inspiration for the theme of the article, i.e. the bibliographic sources, must be as new, current as possible. All this must be taken into account in order to conceive and make a high-quality scientific article publishable.

As future research topics, inspired by the current topic, stand out: *How did I think, what is basically the mind map of my high-quality article?*

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