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Editorial

2023-end editorial: achievements, thanks, perspectives

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Abstract: In the past year, biophysics obtained the first impact factor of 1.5. Before starting the new work, we will review and summarize the work in 2023 and make a simple plan for the work in 2024.

1. Journal summary from Editors in Chief

In the past year, biophysics obtained the first impact factor of 1.5. Now we have stepped into 2024, at the beginning of the new year, and together with the Editorial Office of AIMS Biophysics, we wish to testify my sincere gratitude to all authors, members of the editorial board, and reviewers, thanking everyone for their contribution to AIMS Biophysics in 2023, and we hope we could cooperate with you more in the coming year.

AIMS Biophysics is an international Open Access journal founded in 2014 and devoted to publishing peer-reviewed, high-quality, original papers in the field of biophysics.

AIMS Biophysics attracts countries from all over the world, and of the 65 papers submitted to the journal in 2023, we carefully reviewed and published 28; Two special issues (13 and 10 articles, respectively) have been completed in 2023, and six special issues are open for contributions from outstanding scholars. AIMS Biophysics invited two experts to join our editorial board in 2023.

In the coming year of 2024, we hope to increase the number and quality of papers and are constantly seeking scholars and researchers with outstanding backgrounds to join the editorial board. Improve the efficiency of article processing and shorten the cycle. Always pay attention to academic topics and hot topics, invite and establish corresponding special issues, attract more manuscripts, increase the number of article citations, and improve the academic influence of AIMS biophysics.

Please feel free to let us know your opinions. We look forward to working with you to improve AIMS Biophysics.

Prof. Carlo Bianca co-Editor in Chief
Prof. Lombardo Domenico co-Editor in Chief
AIMS Biophysics journal

2. Editorial development

2.1. Manuscripts statistics

The following Figure 1 is a columnar analysis of the contribution, publication and rejection in the past three years: among them, it can be seen that the contribution has shown a steady growth trend (2021: 54; 2022: 64; 2023: 65), Publication (2021: 30; 2022: 30; 2023: 28) decreased in this year, while the number of rejected manuscripts (2021: 14; 2022: 29; 2023: 34) is increasing year by year.

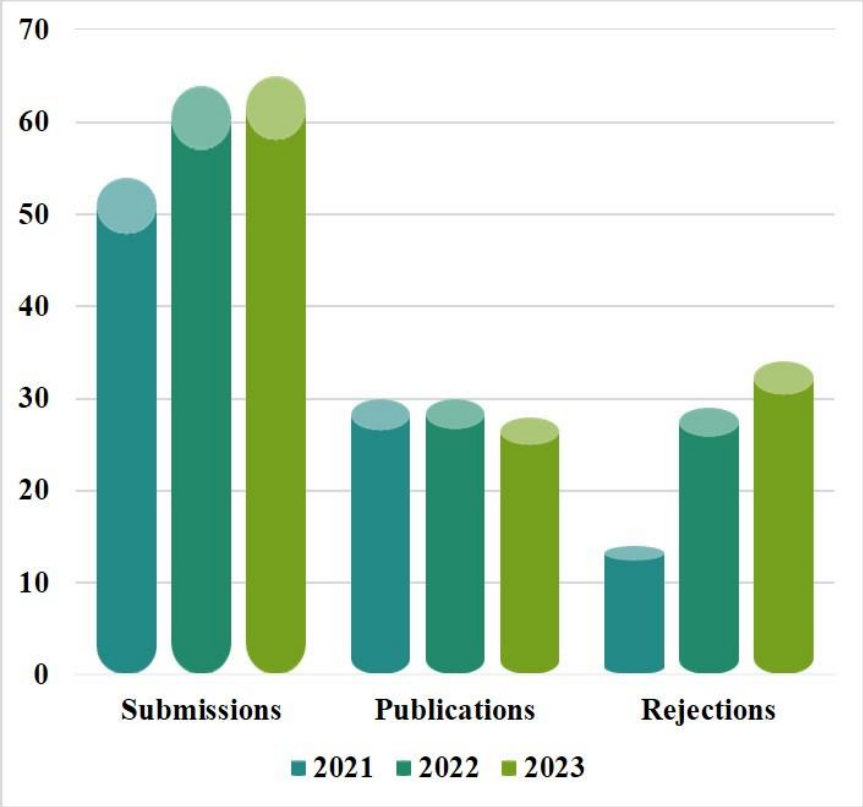

Figure 1. Histogram of articles in recent three years.

2.2. Author distribution

The fan chart of authors' national distribution in 2023 (Figure 2) is as follows: It can be seen that AIMS biophysics attracts countries all over the world, and developed countries occupy a certain proportion.

Our journal is being recognized by more and more countries and scholars, which is one of the goals we have been committed to.

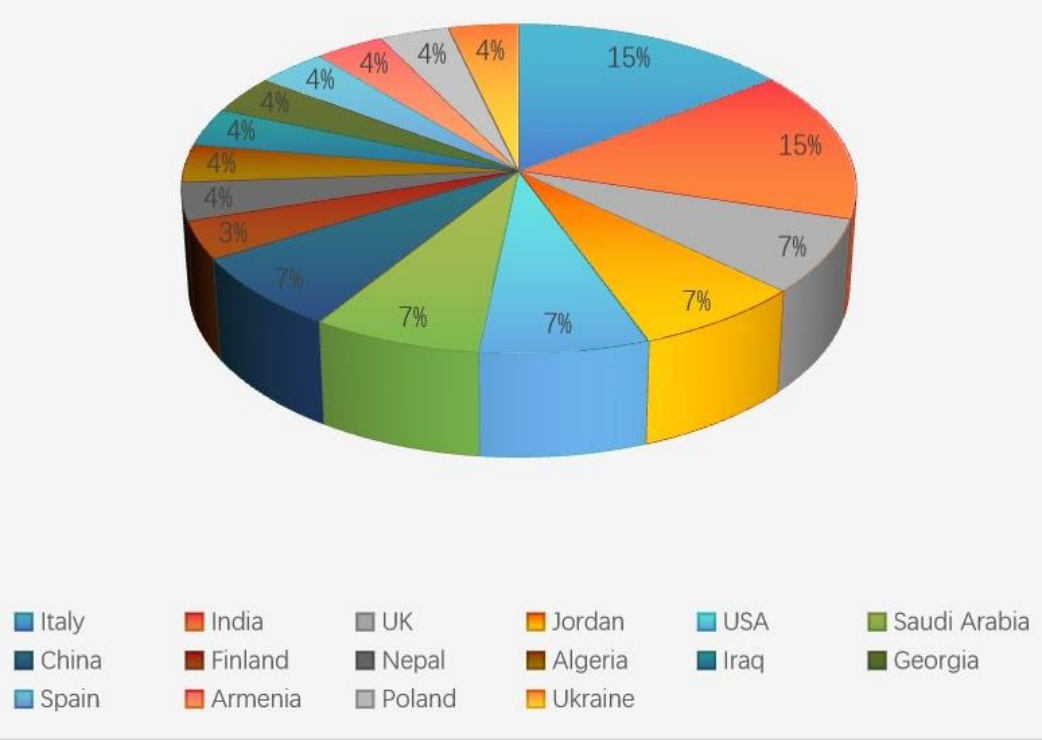

Figure 2. Country fan chart of contributors in 2023.

2.3. Articles processing time

We made a detailed tally of the number of days spent processing manuscripts for four quarters. Figure 3(a) shows the average time from submission to the first decision. This figure is gradually increased with quarterly growth, but the maximum is no more than 80 days. Figure 3(b) is a three-dimensional bar chart of the manuscript from submission to final decision. In general, our handling is stable. In the article from acceptance to publication stage, it is relatively efficient (Figure 3(c)). Throughout the stage (from submission to publication, Figure 3(d)) we have multiple influences, including author revision, reviewer review, English language check and editing, and more. In the New Year, we will be looking for more efficient processing speed.

Publishing papers is a common way for researchers all over the world to display their research results. We hope that the results of scientific researchers can be published quickly, so that scholars can browse, learn from and learn as soon as possible.

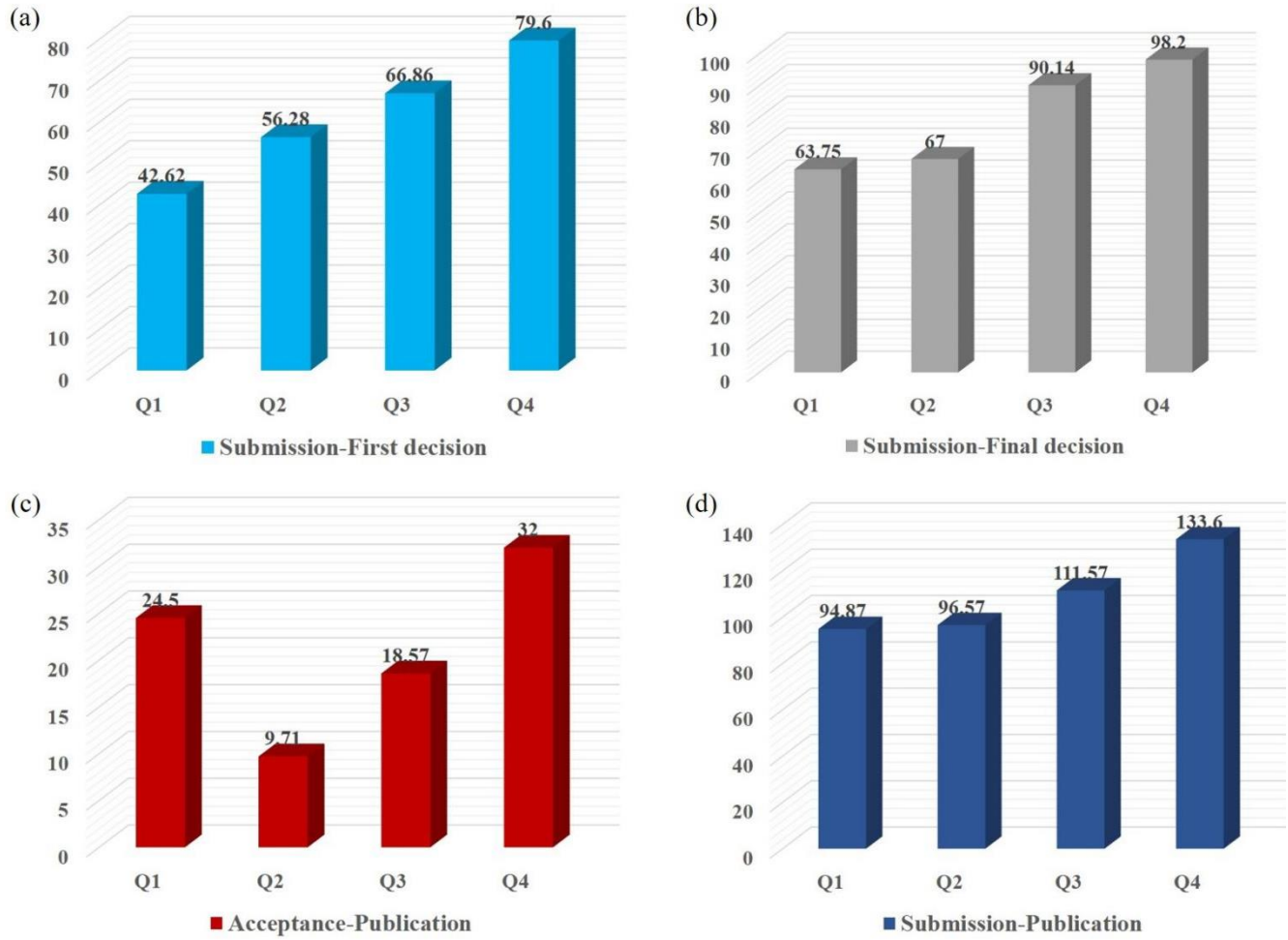

Figure 3. Articles processing time.

2.4. Articles metrics

We have been working hard to increase the number of citations and readings in the journal. We collected data on highly cited articles in the journal over the past five years and the number of articles read by the end of the year (Tables 1 and 2). Secondly, we also promote quotation through wechat public account (Tables 3).

Table 1. The top 10 articles with the highest citations for the past five years.

Title	Citations
Charged amino acids may promote coronavirus SARS-CoV-2 fusion with the host cell	20
An efficient method of detection of COVID-19 using Mask R-CNN on chest X-Ray images	14
Interdisciplinary approaches to the study of biological membranes	13
Biochemical and biophysical mechanisms underlying the heart and the brain dialog	8
Macromolecular sizes of serum albumins in its aqueous solutions	8

Continued on next page

Title	Citations
Nanoparticle-based delivery platforms for mRNA vaccine development	8
Thermodynamic, kinetic and docking studies of some unsaturated fatty acids-quercetin derivatives as inhibitors of mushroom tyrosinase	7
Molecular structure, homo-lumo analysis and vibrational spectroscopy of the cancer healing pro-drug temozolomide based on dft calculations	6
Analysis of a normal and aero helmet on an elite cyclist in the dropped position	6
A generalization of the Shell Theorem. Electric potential of charged spheres and charged vesicles surrounded by electrolyte	6

Table 2. The top 10 articles with the highest views, as of December 2023.

Title	Viewed
Mechanisms and applications of the anti-inflammatory effects of photobiomodulation	22536
Receptor tyrosine kinase structure and function in health and disease	16534
Role of free radicals in human inflammatory diseases	15118
Morphology and ultrastructure of retrovirus particles	12991
Universal buffers for use in biochemistry and biophysical experiments	12573
Salmon calcitonin: conformational changes and stabilizer effects	11035
Nanoparticle-based delivery platforms for mRNA vaccine development	11028
Recent advances in Cryo-TEM imaging of soft lipid nanoparticles	10926
Physical role of nuclear and cytoskeletal confinements in cell migration mode selection and switching	10578
Into the chromatin world: role of nuclear architecture in epigenome regulation	10561

Table 3. Wechat public number promotion for special issue.

Title	Link	Papers	Wechat public number
Mathematical and computational modeling of biological systems: advances and perspectives	http://aimspress.com/aimsbpoa/article/5987/special-articles	10	AIMS Press
Computer method and modeling: medical biophysics applications in cancer therapy, medical imaging and drug delivery	http://aimspress.com/aimsbpoa/article/5975/special-articles	5	AIMS Press

2.5. Special issues

We are committed to collecting and summarizing frontier and hot topics, establishing corresponding special issues and attracting high-quality manuscripts. Up to now, we have six open special issues, welcoming the contributions of scholars from all over the world. See Table 4 for details. At the same time, we have achieved the success of two special issues this year. Their titles, number of articles, links and other details can be seen in Table 5. We continue to improve ourselves in the hope

that we can be included in more databases.

Table 4. Currently available open special issue titles, links, and article.

Title	Link	Papers
Differential equation frameworks and models for the physics of biological systems	https://www.aimspress.com/aimsbpoa/article/6541/special-articles	1
Electromagnetic waves and biology	https://www.aimspress.com/aimsbpoa/article/6239/special-articles	0
Biomacromolecules and nanostructures of biophysical interest: characterization, modeling and application	https://www.aimspress.com/aimsbpoa/article/6560/special-articles	0
Importance of modelling and simulation in biophysical applications	https://www.aimspress.com/aimsbpoa/article/6320/special-articles	9
Scientific advances in complex systems of biophysical interest	https://www.aimspress.com/aimsbpoa/article/6201/special-articles	15
Scientific advance in biomembranes and biomimetic membranes of biophysical interest	https://www.aimspress.com/aimsbpoa/article/6200/special-articles	1

Table 5. Special issue with more than 5 papers.

Title	Link	Papers
Interplay and multiscale modeling of biological complex systems	http://aimspress.com/aimsbpoa/article/6057/special-articles	13
Mathematical and computational modeling of biological systems: advances and perspectives	http://aimspress.com/aimsbpoa/article/5987/special-articles	10

2.6. Editorial board members

AIMS Biophysics has a total of 45 editors, 2 of whom were newly invited in 2023. Figure 4 shows the country distribution of our editorial board members. We can conclude that the larger share is Italy (22%), the United States (20%), France (9%), Germany (9%). In the New Year, we still welcome all interested scholars to join our editorial board.

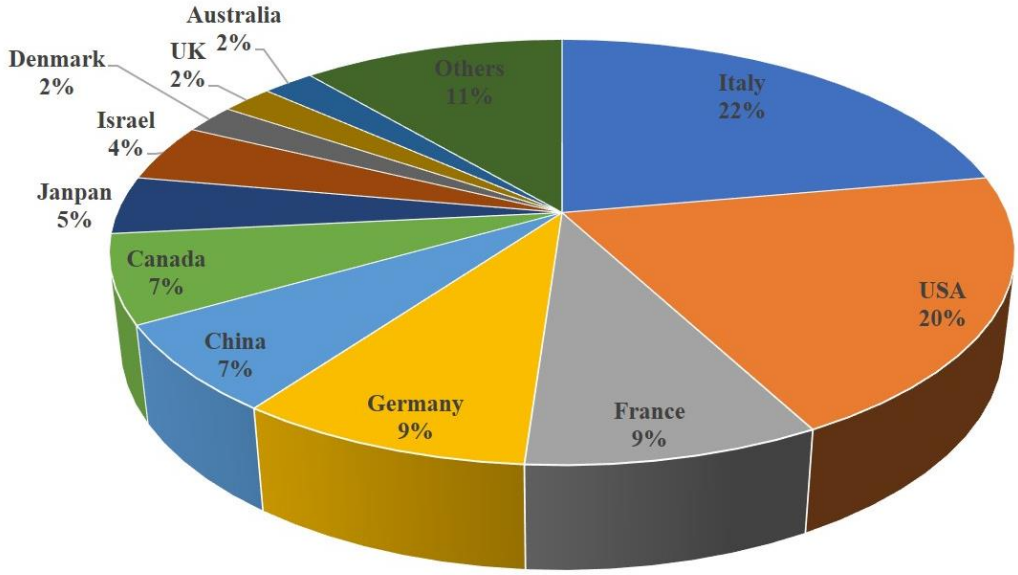

Figure 4. Country distribution of editorial board members.

3. Summary and plan

3.1. Summary

Of the 65 manuscripts submitted, we carefully reviewed and published 28; Two special issues have more than five articles, and six special issues continue to welcome new manuscript submissions; We have two new editorial board members.

3.2. Plan

In terms of articles, the general direction is to push and cite articles regularly, organize articles into a topic for centralized promotion, which can be carried out by mass sending or releasing wechat public accounts, and then hope to increase the number of citations of journals and expand the popularity of journals. On the other hand, to find the right direction, we can use mass sending, or email individually to send customized emails to accurately invite manuscripts, hoping to achieve the purpose of increasing the number of contributions; In addition, it is hoped that the article processing speed can be improved. Deeply reflect on the situation of the manuscripts processed this year, sum up the reasons for the slow processing and learn lessons, and make improvements to our work on this basis. Finally, we will have an in-depth understanding, control and screening of the quality of the manuscript, and deal with the delivered manuscript accurately and quickly.

Beyond the article: In the New Year, the journal needs new growth and progress. Next, I will strive to do a good job of the existing special issue, and then increase the intensity of the appointment of the editorial board and the construction of the special issue, so as to inject a steady stream of new vitality into the journal. In addition, it is necessary to constantly explore the work of soliciting manuscripts. In the New Year, we will consult and understand more about similar journals (including other journals of the company, or excellent journals on websites of the same kind as our own),

constantly exchange and learn from their excellent experience, learn with an open mind, take the essence of their own experience, and do a good job in the appointment work. Do the work at hand well and lay a solid foundation for journals to apply for other databases.

Acknowledgments

We appreciate the time and effort of all our editorial board members, guest editors, reviewers, and in-house editorial team for providing excellent services in 2023. We would like to thank all the authors for choosing AIMS Biophysics and contributing their important work. We hope all the readers enjoyed reading the journal and found value in it.

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