



Editorial

2022-end editorial: achievements, thanks, perspectives

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1. Journal summary from co-Editor in Chief

Now we have stepped into 2023, 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 2022, now we hope we could cooperate with you more this 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.

The statistics and metrics of the journal have been increased and remarkable are the following achievements:

-About 30 publications in 2022 (3 review papers, 23 research articles, 4 editorials);

- A total of four special issues were issued in 2022, and it is hoped that these four special issues will attract more contributions from authors in 2023. 4 special issues have reached more than 5 papers. In particular, the new topics of the special issues proposed in 2022 have allowed the interplay between different scholars coming from different research fields. AIMS Biophysics invited nine experts to join our editorial board in 2022.

In the next year 2023, we hope that we can increase the quantity and quality of papers submitted to AIMS Biophysics and constantly seek scholars with good backgrounds to join the editorial board. Shorten the article processing cycle and improve efficiency. Strive to establish a special issue with topical and hot topics, attract more relevant manuscripts, increase citations/papers and total citations, and improve the academic ranking of AIMS Biophysics.

Finally, we would like to thank all the editorial board members again. The development and progress of the magazine can not be separated from your strong support and time. In the coming year of 2023, we look forward to further strengthening the magazine's strength through continued cooperation.

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

2. Editorial development

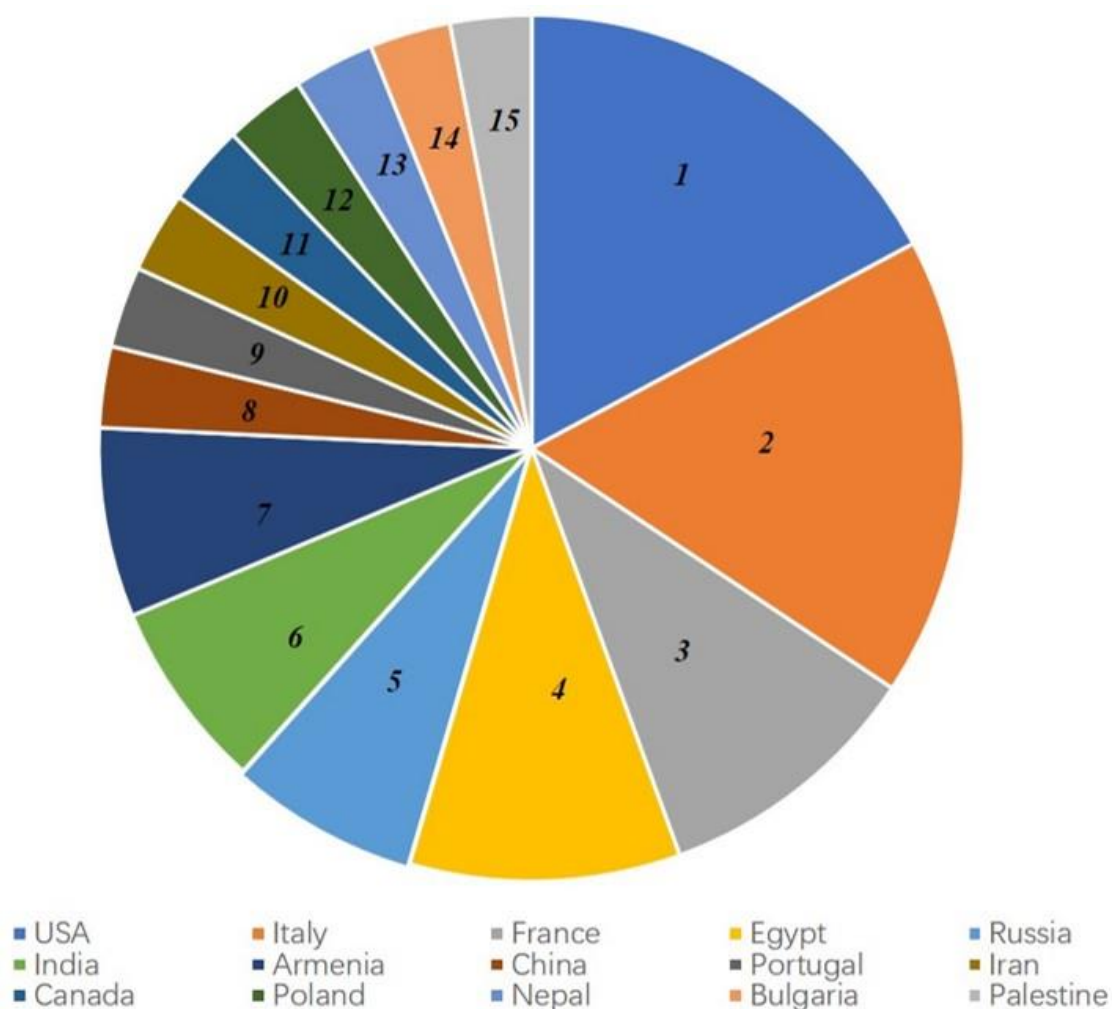
2.1. Manuscripts statistics

Manuscript statistics (2022)

Reject rate: 45.3%

Publication time (median time from submission to online): 76 days

2.2. Author distribution



2.3. Articles type

Type	Number
Review	3
Research article	23
Editorial	4

2.4. Articles metrics

The top 10 articles with the highest citations for the past five years:

Title	Citations
Recent progress in Monte Carlo simulation on gold nanoparticle radiosensitization	21
Charged amino acids may promote coronavirus SARS-CoV-2 fusion with the host cell	16
Intrinsic blue-green fluorescence in amyloid fibrils	13
Interdisciplinary approaches to the study of biological membranes	12
Functional characterizations of polyethylene terephthalate-degrading cutinase-like enzyme Cut190 mutants using bis(2-hydroxyethyl) terephthalate as the model substrate	10
Macromolecular sizes of serum albumins in its aqueous solutions	8
Biochemical and biophysical mechanisms underlying the heart and the brain dialog	6
Nanoparticle-based delivery platforms for mRNA vaccine development	6
Thermodynamic, kinetic and docking studies of some unsaturated fatty acids-quercetin derivatives as inhibitors of mushroom tyrosinase	6
A machine learning algorithm for identifying and tracking bacteria in three dimensions using Digital Holographic Microscopy	6

The top 10 articles with the highest viewed for the past two years:

Title	Viewed
Toxicity associated with gadolinium-based contrast-enhanced examinations	5184
An efficient method of detection of COVID-19 using Mask R-CNN on chest X-Ray images	3621
Effects of magnetic field treated water on some growth parameters of corn (<i>Zea mays</i>) plants	3076
A basic introduction to single particles cryo-electron microscopy	1874
Screening coronavirus and human proteins for sialic acid binding sites using a docking approach	1831
Sequence–function correlation of the transmembrane domains in NS4B of HCV using a computational approach	1724
Radioprotective effect of nanoceria and magnetic flower-like iron oxide microparticles on gamma radiation-induced damage in BSA protein	1701
Chest X-Ray image and pathological data based artificial intelligence enabled dual diagnostic method for multi-stage classification of COVID-19 patients	1631
Tumor treating fields (TTFs) using uninsulated electrodes induce cell death in human non-small cell lung carcinoma (NSCLC) cells	1452
Evaluation of dose enhancement with gold nanoparticles in kilovoltage radiotherapy using the new EGS geometry library in Monte Carlo simulation	1396

2.5. Special issue

2.5.1. New special issues

1. Importance of modelling and simulation in biophysical applications;
2. Electromagnetic waves and biology;
3. Scientific advances in complex systems of biophysical interest;
4. Scientific Advance in Biomembranes and Biomimetic Membranes of Biophysical Interest

2.5.2. Special issues with more than 5 papers

Scientific advances in complex systems of biophysical interest

<https://www.aimspress.com/aimspress.com/article/6201/special-articles>

Interplay and Multiscale Modeling of Biological Complex Systems

<https://www.aimspress.com/aimspress.com/article/6057/special-articles>

Methodological trends in structural biology 2021

<https://www.aimspress.com/aimspress.com/article/5840/special-articles>

Applications of artificial intelligence, mathematical modeling and simulation in medical biophysics

<https://www.aimspress.com/aimspress.com/article/5637/special-articles>

2.6. Editorial board members

AIMS Biophysics has a total of 43 editors, 9 of whom were newly invited in 2022.

2.7. Summary and plan

2.7.1. Summary

In the past year, we published 30 articles, created 4 special issues, and invited 9 new editorial board members. The development of articles and special issues is stable and all aspects go hand in hand.

2.7.2. Plan in 2023

Strive to speed up the process of journal processing, hoping that the median processing time from receiving to publishing online next year is stable and less than 50 days; At the same time, both the appointment and processing of manuscripts should be in strict accordance with the standards, hoping to attract high manuscript quality through the level accumulation of journals. Only by laying a good foundation of the most fundamental quality will the possibility of journals being included in various excellent databases increase, thus improving the popularity of journals. Our ultimate goal seeks to be indexed by more databases by 2023.



AIMS Press

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