



Editorial

2021-end editorial: achievements, thanks, perspectives

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Abstract: This year, the first one as Editor-in-chief of AIMS Biophysics, comes to an end. This Editorial is devoted to summarize the main results of this year and the perspectives of the journal. Last but not least to the Thanks.

1. Journal summary from Editor in Chief

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.

My first year as Editor-in-Chief of AIMS Biophysics comes to an end. The time to thank the Editorial Board Members, the Authors, the Reviewers and the all Staff of the journal is a Must. The success of this year is the consequence of the extremely important collaboration among all of them.

The changes occurred in 2021 have allowed to increase the visibility and the contributions of the journal. The high profile of the Editors and the high quality of the selected papers have not been neglected and some important goals have been reached.

In particular, the journal has been indexed in the scientific version of ESCI-web, with great potential to be included in SCI.

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

-about 30 publications in 2021 (1 review paper, 24 research articles, 4 editorials and 1 communication);
4 papers are still under review;

-6 special issues have reached in 2021 more than 5 papers. In particular the new topics of the special issues proposed in 2021 have allowed the interplay between different scholars coming from different research fields.

Prof. Carlo Bianca Editor-in-Chief
AIMS Biophysics journal

2. Editorial development in 2021

2.1. Manuscript statistics

Under processing paper: 4

Reject rate: 25%

Publication time (from submission to online): 62.5 days

2.2. Articles type

Type	Number
Review	1
Research article	24
Editorial	4
Communication	1

2.3. Special issues with more than 5 papers

6 special issues have reached in 2021 more than 5 papers. In particular the new topics of the special issues proposed in 2021 have allowed the interplay between different scholars coming from different research fields:

1) Applications of artificial intelligence, mathematical modeling and simulation in medical biophysics
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/5637/special-articles>

2) Recent trends in Theoretical and Applied aspects of biological and biophysical phenomena.
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/5862/special-articles>

3) Theoretical frameworks and models for biological systems
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/5178/special-articles>

4) Computer Method and Modeling: Medical Biophysics Applications in Cancer Therapy, Medical Imaging and Drug Delivery
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/5975/special-articles>

5) Mathematical and Computational Modeling of Biological Systems: Advances and Perspectives
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/5987/special-articles>

6) Interplay and Multiscale Modeling of Biological Complex Systems
<https://www.aimspress.com/aimspress.com/aimsbpoa/article/6057/special-articles>

2.4. Articles metrics

The top 10 articles with highest citations:

Title	Citations
Mechanisms and applications of the anti-inflammatory effects of photobiomodulation	254
Recent Advances in Cryo-TEM Imaging of Soft Lipid Nanoparticles	31
Morphology and ultrastructure of retrovirus particles	29
G protein-coupled receptors: the evolution of structural insight	26
The interplay of long non-coding RNAs and MYC in cancer	25
Fast and sensitive rigid-body fitting into cryo-EM density maps with PowerFit	25
What is the role of histone H1 heterogeneity? A functional model emerges from a 50 year mystery	23
Fast and accurate conversion of atomic models into electron density maps	22
Re-modeling Chara action potential: I. from Thiel model of Ca^{2+} transient to action potential form	19
Cellular mechanotransduction	17

The top 10 articles with highest viewed:

Title	Viewed
Nanoparticle-based delivery platforms for mRNA vaccine development	6586
Strategies to investigate protein turnover with fluorescent protein reporters in eukaryotic organisms	3326
The potential of lipid soluble thiamine in the treatment of cancer	3249
The effects of temperature on streptavidin-biotin binding using affinity isothermal titration calorimetry	3223
Charged amino acids may promote coronavirus SARS-CoV-2 fusion with the host cell	3134
Effects of treated water with neodymium magnets (NdFeB) on growth characteristics of pepper (<i>Capsicum annuum</i>)	2502
Thermodynamic, kinetic and docking studies of some unsaturated fatty acids- quercetin derivatives as inhibitors of mushroom tyrosinase	2265
Biochemical and biophysical mechanisms underlying the heart and the brain dialog	2194
Interdisciplinary approaches to the study of biological membranes	2037
Peptide AEDL alters chromatin conformation via histone binding	1918

2.5. Summary & plan

2.5.1. Summary

Among the future perspectives of the journal in 2022, I would like to mention that AIMS Biophysics Editorial Board will continue to

-renew Editorial Board in 2022 by inviting high profile scholars coming from outstanding universities;

-improve the average turnaround time from submission to publication (from the current 62.5 days to 50 days);

-to accept high level papers with particular emphasis on emerging and interdisciplinary fields (the rejection rate for the year 2021 is about 25% which has been increased with respect to the 21% of the year 2020).

Please continue to read, support and submit papers to AIMS Biophysics.

2.5.2. Plan in 2022

Further increase influence of AIMS Biophysics by soliciting and advertising high quality articles and special issues.



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