



## Biology, Evolution and Application of Melanins – New Perspectives for Old Problems

Guest Editor:

**Dr. Przemysław M. Płonka**

Department of Biophysics,  
Faculty of Biochemistry,  
Biophysics and Biotechnology,  
Jagiellonian University, 31-007  
Kraków, Poland

Deadline for manuscript  
submissions:

**closed (30 November 2020)**

### Message from the Guest Editor

Dear Colleagues,

The study of melanins dates back to ancient Greece or even earlier, but the actual precise definition of these substances is still imprecise, particularly when comparing animals with other organisms from various domains and kingdoms. Much more can be said about their synthesis in animals, in particular at the biochemical level. However, melanins are organized differently than other macromolecular biopolymers, revealing a different hierarchy: instead of the primary, secondary, tertiary, and quaternary structures, they are described in micro-, meso-, and macroscopic measures.

I invite you to contribute to a Special Issue of the journal Applied Sciences entitled “Biology, Evolution and Application of Melanins—New Perspectives for Old Problems”, which aims to present recent developments in the field, with futuristic perspectives resulting from the recent, more or less unexpected (or just the opposite—long expected) discoveries and generalizations on melanin and related biopolymers of unusual properties and applications.

Dr. Przemysław M. Płonka  
*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)