# Special Issue

# Recent Progress on Functional Dyes and Their Applications

## Message from the Guest Editors

The rapid advances in material technology have brought to the definition of "functional dyes" as attractive materials generating new functions that are e.g., changing their optical properties, converting energy, or recording information by external stimuli including light, temperature, pressure, pH, electric and magnetic field, etc. As the result of considerable research efforts over the last few years, functional dyes have been applied as semiconductors, emitters and photosensitizers in optoelectronics and photovoltaics, optical and luminescent sensors for biological and environmental monitoring systems, and therapeutical agents for medical purposes. Moreover, functional dyes have attracted growing interest as one of the most promising materials contributing to Sustainable Development Goals (SDGs 2030 Agenda for sustainable development). This Special Issue is to provide an overview of the most recent advances on functional dyes for high-technology and emerging applications such as dye-sensitized solar cells, photochromic materials, organic light emitting devices, organic semiconductors, hole-transporting materials, biological imaging, sensors, and photodynamic therapy.

## Guest Editors

Dr. Nadia Barbero
Dr. Carlotta Pontremoli
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## Deadline for manuscript submissions

closed (31 December 2023)

**Colorants**

**an Open Access Journal by MDPI**

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# About the Journal

## Message from the Editor-in-Chief

We are pleased to announce the introduction of a new academic journal, *Colorants*, dedicated to the science of colorants. The journal seeks to represent all aspects of the subject, ranging from the synthesis and characterization of new substances to the analysis of the social and economic impact of ancient pigments. Manuscripts devoted to both the old and new applications of colorants are especially welcome; for example, spectroscopic analysis of old paintings and the development of new anticounterfeiting tools. Both experimental and theoretical studies fall within the remit of the journal. For further details about the scope and full subject range, please contact the Editor-in-Chief or the Editorial Office. The journal is open access and will feature regular Special Issues dedicated to particular areas of colorant research.

## Editor-in-Chief

Prof. Dr. Anthony Harriman
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.6 days after submission; acceptance to publication is undertaken in 5.5 days (median values for papers published in this journal in the second half of 2025).

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