

Syntheses, Properties, and Applications of Organic Dyes and Pigments

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Message from the Guest Editor

Dear Colleagues,

Today, our world is surrounded by natural and synthetic colored molecules, termed colorants, characterized by mobile electrons that can be excited by visible light and then emit radiation in the visible range of the spectrum.

Recent literature is full of publications on the synthesis and characterization of new dyes and pigments. The aim of this Special Issue is to present research papers that renew the recent discoveries in the field of dyes and pigments. Organic and inorganic dyes will be presented for visible and near infrared regions, and their use in medical applications, such as cancer phototherapy and biomedical analysis, capture and storage of solar energy, optical images and color laser marking for security documents, will be exemplified, too. Last but not least, some of the materials for cultural heritage conservation will be addressed. Although this problem cannot be entirely solved in the field of application, the collection of articles in this Special Issue will be helpful for researchers, academics and industrial agents. Contributions as original articles and review articles are encouraged, covering different areas of application.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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