Special Issue

Advanced Functional Dyes: Preparation and Characterization

Message from the Guest Editor

After the discovery of the first artificial dye, called Mauveine, by W. H. Perkin in 1856, many dye chemists have reported remarkable progress in the synthesis of a great number of novel dyes, which, at the early stage of dye applications, were mainly used in the coloration of textile substrates. In the last decades, research has been focused on the synthesis of advanced dyes based on highly conjugated aromatic molecules featuring new functions, such as light emission, energy generation, bio-labeling. This Special Issue on advanced functional dyes aims to publish recent progress in functional dyes research and the resulting implications. To fulfil this aim, research papers and reviews in the area of functional dye chemistry are welcomed. This Special Issue will contain articles on dye synthesis mainly based on organic species and investigations on their functionalities. Dye structural and spectroscopic studies will also be included.

Keywords:
- Dye synthesis
- functional colorant
- characterization
- absorption maxima
- emission

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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.

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