

Special Issue

Design, Synthesis and Mechanisms of Fluorescent Materials

Message from the Guest Editor

Fluorescent materials are a tool for solving a wide range of tasks in the field of molecular sensing, optical transformation, and, in general, the design of new functional devices and systems. Among the promising mechanisms for the implementation of the spectral response, in addition to direct covalent binding of the luminophore to the target molecule, one can also single out homo- and heteromolecular associative interactions, effects of intramolecular rotation, and molecular complexation. These mechanisms impose special conditions on the luminophore structure but make it possible to realize more sensitive and selective responses. This Special Issue seeks manuscript submissions that further our understanding of the mechanisms of fluorescence changes; approaches to the synthesis of new fluorophores and molecular systems that make it possible to implement various intra- and intermolecular effects; and understanding of the “structure-fluorescent properties” relationship, including those obtained by computer modeling and analysis of big data on the characteristics of luminophores and materials.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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