

Special Issue

Fluorescent Probes: From Structure Design to Property Tuning and Versatile Application

Message from the Guest Editors

Fluorescent probes are intelligently designed molecules, assemblies and nanostructures that provide a responsive optical signal in a non-invasive approach to observe the localization, trafficking, abundance and activity of bioanalytes within complex biological environments, and track the dynamic process of biochemical reaction, cell signal transduction, metabolism as well as cell proliferation and differentiation in real time with high spatial and temporal resolution. This Special Issue on fluorescent probes serves to highlight and illustrate various approaches towards the design, synthesis and construction of fluorescent probes endowed with powerful photophysical properties and their potential applications in imaging, sensing and theranostics.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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