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Lumino and Fluorophores—Illuminating Science and Technology

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Message from the Guest Editors

Dear Colleagues,

Ever since the invention of lenses, man has, not only looked into the skies, but also into the realm of the invisible microscopic world of tissues, cells, and micro-organisms. The use of fluorescent labels and the development of various forms of optical microscopy, in particular confocal laser scanning microscopy (CLSM), have significantly advanced our knowledge about the basic mechanisms underpinning biology and the pathophysiological processes that lead to disease. Furthermore, fluorescence-based assays have largely replaced radioactive assays in the lab. In addition, luminescent compounds and particles have enriched various technologies, including display technology, optoelectronics, solar devices, and optical storage.

It is intended that this Special Issue will consider fundamental physicochemical properties, synthesis and modification, biomedical, imaging and assay applications of luminescent compounds and fluorophores, from organic dyes to fluorescent nanoparticles and fluorescent proteins.

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Dr. Gregor Drummen

Dr. Hellen Ishikawa-Ankerhold

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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