



## Optical Biosensors and Their Applications

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### Message from the Guest Editor

Dear Colleagues,

Chemical structures are capable of forming clusters by interaction, which by external stimuli (temperature, light, pH, etc.) change the physical properties of substances. When designing the architecture of molecular groupings of these materials, it is necessary to address issues related to the method of generating information at the molecular level. In most cases, the supramolecular unit consists of subunits, resp. "functional" molecules; therefore it is necessary to optimize their number, type, order of units, and also solve their mutual interconnection and coordination. New knowledge in the field of processes taking place in the cells of living organisms and their mechanisms, new knowledge in medicine and chemistry, and advances in the development of new technologies (e.g., nanotechnology, biotechnology, new light sources), together with smart applications and the current global pandemic, create the conditions and requirements for the development and improvement of optical biosensors. Optical biosensors thus achieve higher stability and specificity, higher sensitivity, reproducibility, and miniaturization, and a quick return on production costs.





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## Message from the Editor-in-Chief

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