

Special Issue

Complexes as Tool for Design and Synthesis of Species with Biological Application

Message from the Guest Editor

The evolution of diseases in the last few decades has necessitated both the diversification and improvement of treatment approaches. On the other hand, antitumor agents currently used in cancer treatment are expensive, induce toxicity and resistance, and are ineffective in managing metastasis. Furthermore, there is a lack of drugs for treating conditions such as diabetes mellitus, viral and parasitic infections, and inflammatory diseases. As a result, there is a pressing need for either new drugs or optimized formulations to achieve effective treatment. To address this, metal complexes and their hybrid-based materials represent promising tools, as their chemical and biological properties can be fine-tuned through the appropriate selection of ligands and/or species that facilitate proper delivery. Consequently, there is continuous interest in designing and testing new metal complexes and hybrid materials by incorporating them into organic or inorganic matrices with valuable biological properties. Additionally, research in this field focuses on identifying suitable administration routes to preserve these properties *in vivo*.

Guest Editor

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Message from the Editor-in-Chief

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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