

## Special Issue

# Radiochemistry: Present Status and Future Perspectives

### Message from the Guest Editors

Radiochemistry is the study of radioisotopes and their chemical properties, reactions, and processes. The careful manipulation of these isotopes is critical for the advancement of technologies in nuclear energy and medicine, as well as for deepening our fundamental understanding of the elements at the outer reaches of the periodic table, where nuclear instability is the norm. With increased academic access to radioisotopes like the actinides, as well as the resurgence of interest in nuclear energy and radiopharmaceuticals for targeted cancer therapies, this Special Issue compiles research that underscores the current status and future prospects of radiochemistry. This Special Issue focuses on isotope production, radioisotope separation techniques, chemical and radiation-induced radical reactions, complexation thermodynamics, organometallic synthesis, crystallography, and alpha-particle and gamma counting spectroscopies to highlight the current state of the art and shape the future of this broad field of chemistry.

### Guest Editors

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## Molecules

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## About the Journal

### 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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### Editor-in-Chief

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