Special Issue

Advanced Applications of Technetium Chemistry

Message from the Guest Editor

The first ever discovered artificial element, technetium, has played a pivotal role in promoting the growth and remarkable success of nuclear diagnostic imaging in the past decades. It is easy to recognize that the most important reason for this long-lasting success of technetium-99m radiopharmaceuticals resides in the richness of the chemistry of this transition element. Only the existence of a multitude of stable chemical motifs and structural arrangements for technetium complexes has allowed investigation of the biological and diagnostic properties of a large spectrum of coordination compounds and eventually the discovery of useful imaging agents. Today, we are at the verge of a new era for technetium-99m radiopharmaceuticals after many years of obscurity. It seems worthy to review the status of technetium chemistry and to summarize the most remarkable results that have been unearthed during the last years. The aim of this Special Issue is to collect a number of contributions that can illustrate the still-flourishing field of technetium coordination chemistry and its applications to diagnostic medicine.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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