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Actinoids in Biologic Systems and Catalysis

Guest Editor:

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editor

The past decades witnessed the quick growth of our knowledge in actinoids chemistry, among which are their behaviors in catalysis and in biologic systems. The knowledge in these issues is important to the sustainable civil application of nuclear fission energy, and contributes to an objective evaluation of potential influence to environment and health. Studies in these two issues have touched the fundamental nature of coordination chemistry of actinoids.

In the field of catalysis, low valent actinoid complexes have been reported to display intriguing reactivities to the activation of small molecules, e.g. CO_2 and N_2, which opened a new path to their activation, and to the synthesis of more complex chemical compounds. These studies showed the potential to make use of isotopes with low radioactivity in catalysis that otherwise require geological disposal. This deserves extensive studies.

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Message from the Editor-in-Chief

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