

演題: "Dipyrrin based heterometallic crystalline architectures"

講師: **Dr. Stéphane Baudron**

Université de Strasbourg, France

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要旨:

Coordination polymers, CPs, have attracted considerable interest over the past few years owing to their potential application for gas storage or catalysis, for example. While the vast majority of these compounds are homometallic, the synthesis of their heterometallic counterpart remains challenging. Indeed, a one-pot synthetic approach can lead to a statistical mixture of homo- and hetero-metallic architectures. To circumvent this synthetic issue, a sequential strategy can be envisioned. The latter relies on the use of ligands bearing differentiated coordination sites hence allowing the stepwise elaboration of heterometallic architectures. Reaction of such a ligand with a first metal center leads to the formation of a metal complex, or metallatecton, bearing peripheral coordinating sites available for ligation to another metal center. Among the many potential differentiated ligands, dipyrrins, dpm, represent a particularly interesting class of compounds. Indeed, their rather easy synthesis and functionalization as well as the monoanionic and chelating nature of their conjugate base have made them appealing candidates. In particular, the 5-aryl-dipyrrin derivatives have been successfully used for the elaboration of extended heterometallic architectures. I will present here our results obtained following this strategy using such functionalized ligands.



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連絡先: 理学研究院化学部門錯体化学研究室
加藤昌子 (内線: 3817) mkato@sci.hokudai.ac.jp