

Dynamic supramolecular metallopolymers: synthesis and applications

Dr. Stéphane BELLEMIN-LAPONNAZ, D.R. CNRS

IPCMS Institut de Physique et Chimie des Matériaux de Strasbourg, UMR 7504 CNRS,
Université de Strasbourg, 23 rue du Loess, BP 43, F-67034 Strasbourg Cedex 2, France
e-mail: bellemin@unistra.fr

(la conférence sera présentée en français)

Metallo-supramolecular polymeric assemblies incorporating metal ions and ditopic ligands offer the opportunity to build materials with properties and functions of interest both in fundamental research and for the development of new technologies. In the past decade, a wide variety of such polymers have been studied and have been shown as an interesting class of materials.^[1]



Our recent advances in this field will be presented. In particular, we will focus on the strategies that allowed us to develop light-powered soft actuators based on metallo-supramolecular polymers.^[2] We will also describe how chiral ligands are versatile motifs for the controlled construction of alternating coordination polymers and how they satisfy the prerequisites for future opportunities in this field.^[3]

Finally, recent progress in the development of reusable asymmetric catalysts will be discussed: multitopic chiral metal complexes have been applied in various enantioselective reactions with great success.^[4,5]

References

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