～講演会のご案内～

演 題: “Building nano-scaled clusters and nanocontainers using the calixarene scaffold”

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日 時: **2026 年 11 月 18 日（水）14:30～16:00**
場 所: **北海道大学理学部 7 号館 219/220 室**

Abstract: The well-known calix[4]arene macrocyclic platform is an interesting precursor for the building Coordination Polymers[1] and nanosized coordination compounds.[2] The versatility of this chemical building block allows its chemical modifications and when combined, in different conditions, with metallic centers, together with appropriated ligands, nanostructurated molecular compounds can appear. The formation of Giant clusters (up to 24, 40 and 48 metallic ions) (Figure 1A) and also porous nanocontainers (Figure 1B) is discussed, together with their potential applications and perspectives.

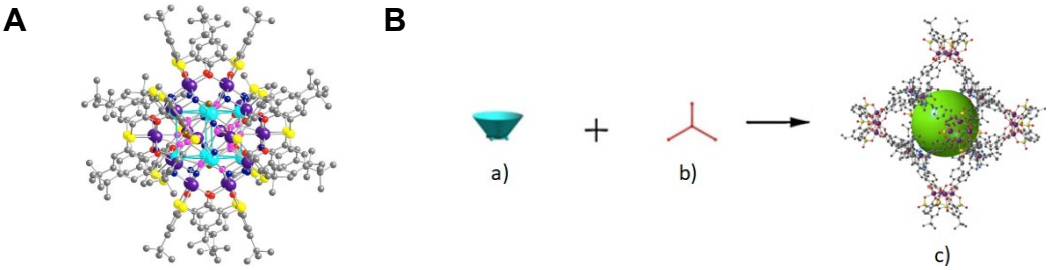


Figure 1

[1] A. Ovsyannikov, S. Solovieva, I. Antipin, S. *Coord. Chem. Rev.*, **2017**, *352*, 151-186.
[2] a) Y. Bi, S. Du, W. Liao, *Coord. Chem. Rev.*, **2014**, *276*, 61-72. b) I. V. Khariushin, V. Bulach, S. E. Solovieva, I. S. Antipin, A. S. Ovsyannikov, S. Ferlay, *Coord. Chem. Rev.*, **2024**, *513*, 215846.
[3] a) I. V. Khariushin, A. S. Ovsyannikov, S. A. Baudron, J. S. Ward, A. Kiesilä, K. Rissanen, E. Kalenius, K. A. Kovalenko, V. P. Fedin, S. E. Solovieva, I. S. Antipin, V. Bulach, S. Ferlay, *Chem. Commun.*, **2022**, *58*, 13628-13631. b) I. V. Khariushin, A. S. Ovsyannikov, S. A. Baudron, J. S. Ward, A. Kiesilä, K. Rissanen, E. Kalenius, M. Chessé, B. Nowicka, S. E. Solovieva, I. S. Antipin, V. Bulach, S. Ferlay, *Nanoscale*, **2025**, *17*, 1980-1989.

共催: 北海道大学物質科学フロンティアを開拓する Ambitious リーダープログラム
北海道大学スマート物質科学を拓くアンビシャスプログラム

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