
The 151st iCeMS SEMINAR

Fri 29 November 2013
11:00-12:00

Bioapplications of Metal Organic Frameworks

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Venue: 2nd Floor Seminar Room (#A207)
iCeMS Main Building (#70), Kyoto University

Porous Coordination Polymers or Metal Organic Frameworks (MOFs) are a class of crystalline hybrid solids based on metal sub-units and organic complexing molecules (carboxylates, azolate). These compounds bear an unprecedented structural and chemical diversity leading to many potential applications in gas storage, separation or catalysis. Recently, the controlled synthesis at the nanoscale of MOFs particles has been carried out using various techniques (microwave) as well as attempts of surface functionalization. Metal polycarboxylates based MOFs nanoparticles are biodegradable, biocompatible and present a great interest in several biomedical domains such as drug delivery, release of biologically active gases or imaging. We will report here our most recent achievements in this area.

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