

Furukawa Group

SEMINAR

Controlled Self-assembly and Materials Engineering in Flow



Dr. Josep Puigmartí-Luis
ETH Zürich, Switzerland

Monday December 11th, 2017 13:00-14:30
Kyoto University KUIAS (iCeMS Main Building)
2F Seminar Room (#A207)

Abstract:

For chemists and material scientists the self-assembly process into intricate and functional structures is commonly studied via chemically “encoding” the constituent units, i.e. changing functional groups and/or reactivity of the forming moieties, or employing advanced processing methods. However, even though there are many reported studies showing the successful assembly of functional man-engineered structures, there is a constant need to explore new technologies that can aid in controlling self-assembly, regardless of the molecular units employed. In this context, diffusion-control microfluidic methods will be introduced in this seminar as a top-down strategy to ease the design of self-assembly structures and to manipulate self-assembled processes in time and space.

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