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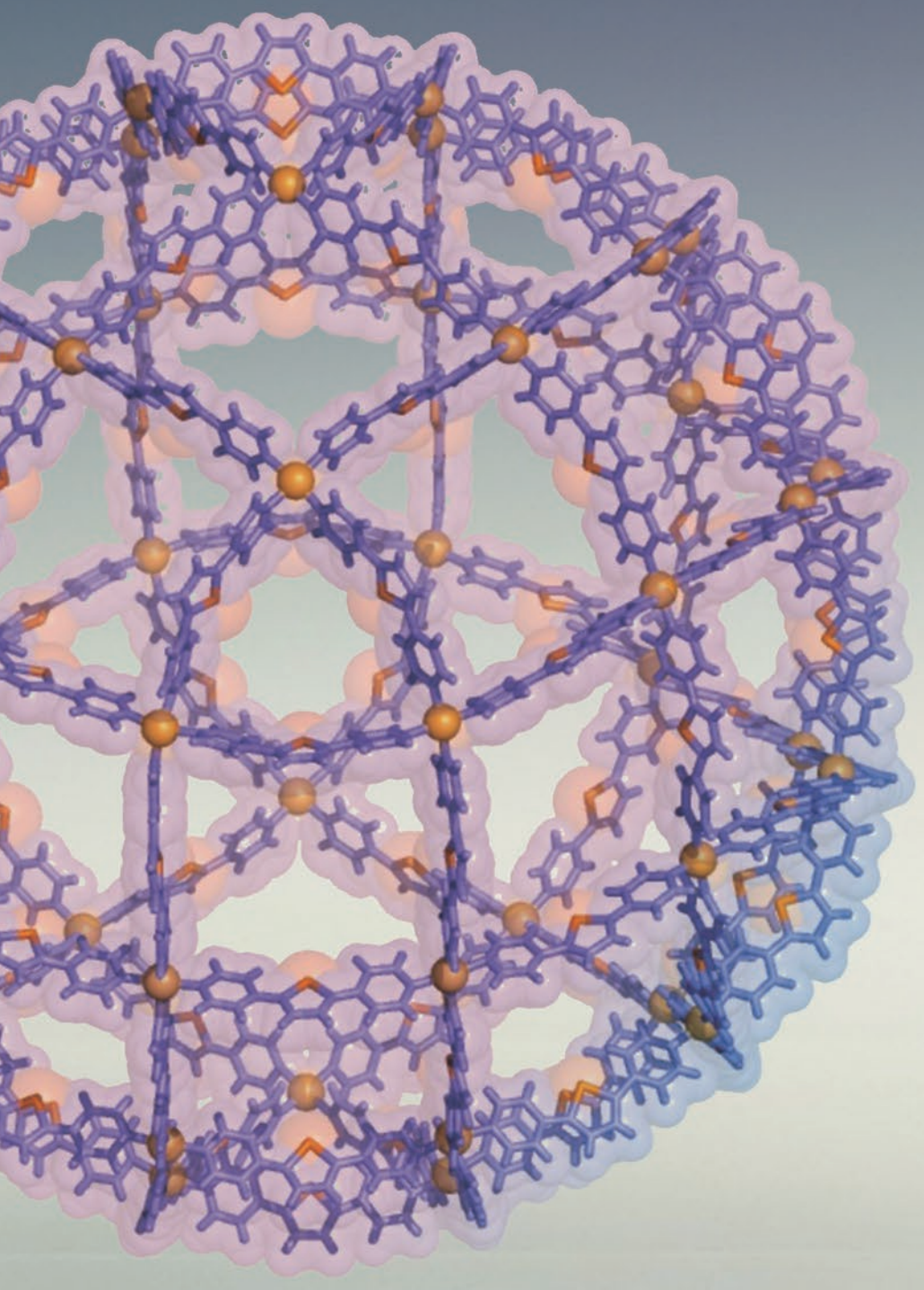

OIST Presidential Lecture

Coordination Self-Assembly: From Origins to the Latest Advances

Mon., Oct. 16

16:00 – 17:30 B250

Molecular self-assembly based on coordination chemistry has made an explosive development in recent years. Over the last >30 years, we have been showing that the simple combination of transition-metal's geometry (typically, a 90 degree coordination angle of Pd(II) center) with organic bridging ligands gives rise to the quantitative self-assembly of nano-sized, discrete organic frameworks. Representative examples include square molecules (1990), linked-ring molecules (1994), cages (1995), capsules (1999), and tubes (2004) that are self-assembled from simple and small components. Originated from these earlier works, current interests in our group focus on i) molecular confinement effects in coordination cages, ii) solution chemistry in crystalline porous complexes (as applied to "crystalline sponge method"), and iii) and giant self-assemblies, as disclosed in this lecture.

Prof. Makoto Fujita

Distinguished Professor, The University of Tokyo
2018 Wolf Prize Winner in Chemistry

Makoto Fujita is a University Distinguished Professor at the University of Tokyo. He earned his Ph.D. from the Tokyo Institute of Technology in 1987 and became a full professor at Nagoya University in 1999. He joined the University of Tokyo in 2002, and in 2019, he was bestowed with his current title by the University. He is the recipient of the 2018 Wolf Prize in Chemistry.

For inquiries contact ✉ **oist_president@oist.jp**