

International symposium
Metal-Oxo Cluster Sciences: Exploring Novel Possibilities

First announcement

We are pleased to announce that an international symposium on metal-oxo cluster sciences will be held on 5th-8th August, 2018 in Tokyo, Japan, as a satellite meeting to the 43rd International Conference on Coordination Chemistry (ICCC2018). The symposium, entitled as “Metal-oxo cluster sciences: exploring novel possibilities,” will be a forum to discuss metal-oxo cluster sciences, aiming at exploring their novel possibilities. Metal-oxo cluster science, typified by but not limited to polyoxometalate chemistry of early transition elements, provides atom-precise molecular models of metal oxides and hydroxides. When metal-oxo clusters are dissolved/dispersed/mixed in solid, liquid or gas phases, their interface with the surrounding media can be regarded as well-defined models of the interface between metal oxides/hydroxides and the surrounding environment. Metal-oxo clusters that are functionalized with inorganic, organometallic or organic molecules/moieties, mimic similar chemical processes of metal oxides/hydroxides, allowing investigations of their mechanisms at atomic resolution. Recently, metal-oxo cluster science has garnered more wide-spread attention via the emergence of unprecedented and unexpected metal-oxo clusters, with respect to their constituent elements and to their size and complexity. Also contributed to the progress of metal-oxo cluster science are the development of physico-chemical technologies that has allowed investigations of large-scale and highly complex metal-oxo clusters and their assemblies; including light and X-ray scattering, mass spectrometry, and direct imaging in solution and at interfaces; in addition to advances in computational power and techniques. The international symposium “Metal-Oxo Cluster Sciences: Exploring Novel Possibilities” will be a forum to discuss novel possibilities of this growing discipline by exploiting recent advances. By inviting specialists from molecular design, composite material fabrication, nano-scale structure analyses, solid-state physicochemical properties and applications to catalysts, we will discuss the strategies to design composite materials that fully exploits the fascinating properties of metal-oxo clusters.

Scheduled date: August 5th to 8th, 2018

Conference venue: Oval Hall, College of Humanities and Sciences, Nihon University

3-25-40 Sakurajosui, Setagaya-ku Tokyo 156-8550 Japan

<http://maps.google.com/maps?q=35.663161,139.63558>

Organizers:

Tomoji Ozeki (Nihon University)

Yoshihito Hayashi (Kanazawa University)

Sayaka Uchida (The University of Tokyo)

Masahiro Sadakane (Hiroshima University)

Fumiyasu Iwahori (Nihon University)

Biao Zhou (Nihon University)

Kenji Ohashi (Nihon University)