Frontier Chemistry Center
フロンティア化学教育研究センター

講演会

演 題：**Pushing the Limits of N-heterocyclic Carbenes**

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POSTECH,Pohang, Republic of Korea

日 時：2019 年 6 月 7 日(金)16:30～18:00

場 所：工学部 材料・化学系棟 MC030 教室

要旨：N-Heterocyclic Carbenes (NHCs) have been intensively explored for stabilizing unstable species such as radicals and zerovalent nonmetal species, and for activating small molecules such as CO, H_2, NH_3, N_2O, NO, etc. Such a capability of NHCs can be attributed to their strong donor characters and steric tunability that lead to the remarkable reactivity. Recently, we reported N-heterocyclic carbene nitric oxide （NHCNO) radicals, which can be also considered as iminoxyl radicals. We also found that triazenyl cations stabilized by NHC form the corresponding triazenyl radicals upon the treatment of elemental potassium as a reductant. With the novel reactivity of NHCs, we have also been exploring porous metal–organic frameworks (MOFs) and cages (MOCs) with various N-heterocyclic carbene precusors, imidazolium salts, and metal ions due to their potential applications such as catalysis, gas storage, molecular separations, etc.

協賛 ：公益社団法人 有機合成化学協会 SSOCJ - The Society of Synthetic Organic Chemistry, Japan

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