

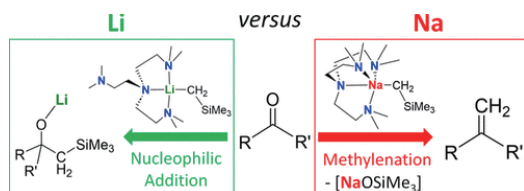
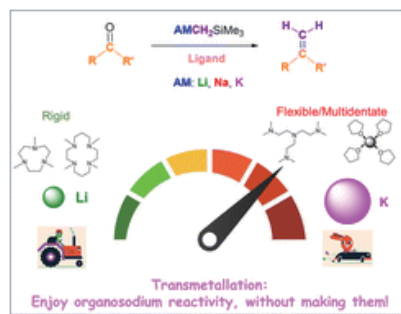
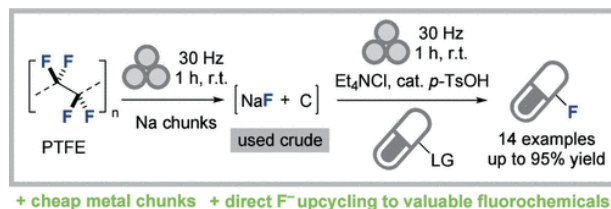
第93,94回有機元素化学セミナー

The 93rd/94th Organoelement Seminar Series

Prof. Erli Lu
(U. of Birmingham, UK)

website: <https://www.erlilulab.org/>

**"Dawn of a Sodium Era
for Sustainable Synthesis"**



Sodium is one of the most abundant elements in Earth's crust (2.6% abundance). But to date, it has only found limited applications in synthetic chemistry (e.g., as a reductant). Since 2023, we have been dedicated to unleash the full potential of Na in sustainable synthesis, in the following two frontiers:

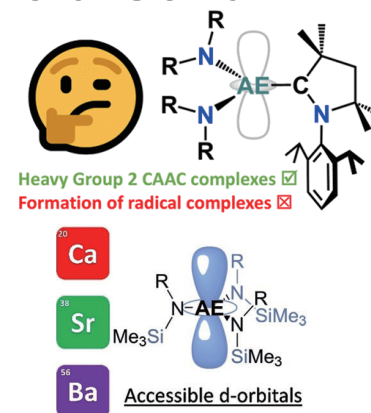
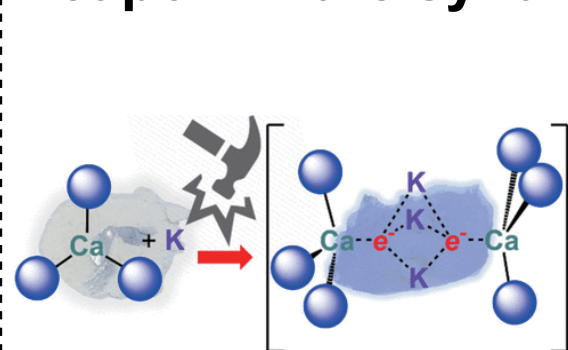
1. Organosodium chemistry
2. Sodium in Mechanochemistry

Prof. Fabrizio Ortu
(U. of Leicester, UK)

website: <https://orturesearch.com/>



**"Alkaline Electrides: a new
weapon in the synthetic arsenal"**



The chemistry of the alkaline earth (AE=Mg-Ba) elements is classically dominated by the +2 oxidation state, due to the stability of AE(II) cations. This arises from their closed-shell configuration and is further demonstrated by their large reduction potentials. This lecture will focus on the alkaline earth metals in low oxidation state, generated by their reduction with a strong reductant.

14:30-16:30, December 12 (Fri), 2025@Room M-178 (1st floor, main building, Institute of Science Tokyo)
Host: Makoto Yamashita (Sch. of Sci.) (yamashita.m.6dbb@m.isct.ac.jp)