Main Group Metal Chemistry (26:160:577)

COURSE DESCRIPTION

This graduate level course will cover the basics as well as recent advances and developments in main group chemistry. Special emphasis will be given to the synthesis, properties, and reactivity of main group organometallic compounds.

Several topics of intense current research such as the synthesis of inorganic/organometallic polymers and luminescent materials, the development of powerful Lewis acids, the stabilization of low-valent metal complexes, the realization of multiple bonding in main group chemistry, and the applications of main group organometallic species in homogeneous catalysis will be discussed.

Prerequisite: Undergraduate Level Inorganic Chemistry

INSTRUCTOR

Prof. Frieder Jäkle, Olson Hall; Room 336; Tel. (973) 353-5064

Please use email for contact whenever possible: fjaekle@rutgers.edu

Office hours: Any time upon arrangement (please email)

COURSE MATERIALS

Lecture material will be provided (posted on the web site) and is based in part on the recommended textbooks and to a greater extent on articles from the current literature.

Recommended Texts (optional):


COURSE INFORMATION

Relevant course information will be posted at http://blackboard.rutgers.edu

Click "Login" and type your username and password, which are identical to your Rutgers email

Follow the link for my courses and select "26:160:577 Main Group Metal Chemistry".