

Sveučilište u Zagrebu  
Prirodoslovno-matematički fakultet  
Kemijski odsjek

## KOLOKVIJ

**Matic Lozinšek,**

s Instituta Jožef Stefan, Ljubljana, Slovenija

održat će u srijedu 24. travnja u predavaonici A1 (prizemlje zgrade Kemije, Horvatovac 102a) s početkom u 13:15 sati kolokvij pod naslovom:

### **Novel xenon–nitrogen- and xenon–oxygen-bonded compounds**

Binary noble-gas fluorides,  $\text{XeF}_2$ ,  $\text{XeF}_4$ ,  $\text{XeF}_6$ , and  $\text{KrF}_2$ , which can be synthesized directly from the elements, are the starting materials for noble-gas chemistry research. A large proportion of the noble-gas compounds that can be isolated in macroscopic quantities therefore contain noble-gas atoms bound to fluorine. Compounds with noble-gas bonding modalities involving other electronegative atoms such as nitrogen and oxygen are less explored. In this lecture, I will present our recent research on Xe–N- and Xe–O-bonded compounds and the role of xenon  $\sigma$ -hole in chemical reactivity and intermolecular interactions.