KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

dr. Andraž Krajnc

D09, Department of Inorganic Chemistry and Technology

Četrtek / Thursday, 27.9.2018 ob / at 13:00

Velika predavalnica Kemijskega inštituta/ Great Lecture Hall,
National Institute of Chemistry, Hajdrihova 19, Ljubljana

Defects and disorder in MOFs

Metal-organic framework materials (MOFs) have been studied for almost two decades, but only recently, with the discovery of inherent defects in their frameworks, the center of interest was diverted to the structural identification of irregularities. Such irregularities should be carefully examined since they can greatly alter macroscopic properties of the bulk MOFs (e.g., catalytic activity, adsorption affinity, optical properties). An NMR-based approach for structural examination of the defective MOFs will be presented, together with a few case studies. The approach is based on inspecting the rate of polarization transfer between magnetically inequivalent protons and can, in general, be applied to any kind of disordered materials.

Vljudno vabljeni / Kindly invited