



NATIONAL INSTITUTE OF CHEMISTRY

70
YEARS

SI-1001 Ljubljana
Hajdrihova 19, p.p. 660
Tel.: 01/476 02 00
Fax.: 01/426 03 00
<http://www.ki.si>

Vabilo na Forum40 / Invitation to the Forum40

dr. Matjaž Mazaj

D-09, Department of Inorganic Chemistry and Technology

Četrtek / thursday, 26.1.2017 ob / at 13:00

**Velika predavalnica Kemijskega inštituta/ Lecture hall, National Institute of
Chemistry; Hajdrihova 19, Ljubljana**

Designing of metal-organic frameworks towards water-resistant structures

Metal-organic frameworks (MOFs) are a fast developing class of nanoporous materials constructed from nodes of metal ions and multidentate organic ligands forming the crystalline hybrid nets. Their unique structure properties such as high surface areas, void accessibilities and high density of open-metal sites enable versatile application opportunities. Applicability of MOFs is however still rather limited due to their chemical instability in solvo- or hydrothermal conditions. Herein, different synthesis strategies for improving MOF's chemical resistivity in the presence of water will be presented.

Vljudno vabljeni / Kindly invited