

Univerza
v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

p.p. 537, Večna pot 113
1001 Ljubljana
telefon: 01 479 80 00
faks: 01 241 91 44
dekanat@fkkt.uni-lj.si



VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI / INVITATION TO THE
LECTURE WITHIN DOCTORAL PROGRAMME IN
CHEMICAL SCIENCES

Prof. Dr. Christian Masquelier

*LRCs, Université de Picardie Jules Verne,
UMR CNRS 7314, Amiens, France*

z naslovom / title:

**Crystal Chemistry of Phase Transformations in
Battery Materials:
Electrodes and Solid Electrolytes**

**v sredo, 18. 1. 2023 ob 15. uri /
on Wednesday, 18. 1. 2023 at 15.00**

**v predavalnici 1 v 1. nadstropju Fakultete za kemijo in
kemijsko tehnologijo, Večna pot 113 / in lecture room 1,
1st floor at the Faculty of Chemistry and Chemical
Technology, Večna pot 113**

Vljudno vabljeni! | Kindly invited!

Abstract:

Battery materials, positive electrodes and solid electrolytes in particular, are inorganic compounds that are prone to rapid transport/diffusion of alkali species such as Li^+ or Na^+ . As such, they present very interesting and fundamental properties of phase transformations upon alkali ion insertion/extraction and as a function of temperature.

In this lecture, i will address several key illustrative examples or order-disorder phenomena within battery materials of interest: LiMn_2O_4 , LiFePO_4 , LiVPO_4F , $\text{Na}_3(\text{Fe,V})_2(\text{PO}_4)_3$, $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$, Na_3PS_4 ,

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