



FACULTY OF
SCIENCE
Charles University

Department of Physical and Macromolecular chemistry

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Department of Physical and Macromolecular Chemistry
invites you for a seminar
and
a habilitation lecture

Isomorphous substitution for the design of heterogeneous catalysts

Lecture hall CH 3, Faculty of Science, Hlavova 8, Praha 2
on October 12th, 2022 at 14:00

speaker: Mariya Shamzhy, Ph.D.

Dept. of Physical and Macromolecular Chemistry, Faculty of Science, Charles University



As one of the most important heterogeneous catalysts, zeolites found application in a number of large-scale processes that require active sites of different nature. Isomorphous substitution is a key way to tailor the characteristics of a zeolite for a particular type of transformation.

This habilitation lecture will introduce the phenomenon of isomorphous substitution while emphasizing its importance in the design of heterogeneous catalysts with specific properties of active sites. Particular attention will be paid to the contribution of the applicant in developing methods for control over the nature of acid centers in extra-large pore and hierarchical zeolites.

Organizers: Prof. Tomáš Obšil, Prof. Jiří Čejka, Dr. Jan Přečh