

Seminář odd. 26

Tenkých vrstev a nanostruktur

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TÉMA

Charged individual molecules on insulating films by atomic force microscopy

Shadi Fatayer

IBM Research – Zurich, Rueschlikon, Switzerland

Here, we present results concerning molecules and their charge-state determination and control on multilayer NaCl films. We demonstrate lateral single electron transfer between molecules (1) and gain insight into charging processes via single-electron tunneling spectroscopy, where we quantify the reorganization energy of a molecule on a NaCl substrate (2). Finally, we show results where the charge state of a complex on top of an insulator plays a key role for its on-surface chemical reaction.

References

(1) W. Steurer et al. Nature Communications 114, 036801 (2015)

(2) S. Fatayer et al. Nature Nanotechnology 13, 376 (2018)

odborný garant: *Ing. Pavel Jelínek, Ph.D.*