



J. Heyrovský Institute of Physical Chemistry, v.v.i.
Academy of Sciences of the Czech Republic

Department of Electrocatalysis

Special Seminar



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Two-dimensional Oxide Nanosheets: New Solution to Nanoelectronics

Two-dimensional (2D) nanosheets with a thickness of less than 1 nm and lateral dimensions up to 10s of micrometers are the thinnest self-standing 2D nanostructures; they are just about one unit cell thick. Such exotic 2D nanosheets have been emerging as important new nanomaterials due to their unique properties and potential applications in areas ranging from electronics to catalysis. Research in 2D systems has recently intensified as a result of the emerging progress in graphene - a carbon nanosheet, as well as the successful exfoliation of functional oxides including $\text{Ti}_{1-d}\text{O}_2$, MnO_2 and perovskites.

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Time: **10.30**

Place: **Rm. 108**

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