



Dr. chem. Kaspars Traskovskis
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“New Molecular Design Approaches Towards the Improvement of Organic Electro-Optical Materials”

About the presentation

During the last decades the class of organic materials has become a topic of increased interest amongst fundamental and industrial researchers. Such application directions as organic light emitting diodes (OLEDs) have already resulted in an industrial sector with a multi-billion market share. While the fundamental principles correlating the efficiency parameters and chemical structures of individual molecules are well understood in most application directions, the attainment of sufficient efficiency in bulk material is often problematic due to the intermolecular interactions in the solid-state. In this presentation several structural approaches will be presented towards acquisition of efficient solid-state materials, focusing on application directions in nonlinear optics and OLEDs.

About the speaker

Dr. chem. Traskovskis finished his doctoral studies in chemistry at Riga Technical University in 2014. Since then he has continued his scientific work at RTU and currently holds a position of principal researcher in Institute of Applied Chemistry. His research interests covers synthesis and characterization of organic materials for use in different electro-optical devices. The application directions of the materials include holography, OLEDs, nonlinear-optical materials and photovoltaics.