

GÖCH-OBERÖSTERREICH PROGRAMMVORSCHAU

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**“Molecular design of functional pi-
conjugated systems for advanced
applications”**

Johannes Kepler Universität Linz
17.15 Uhr, Hörsaal 13 (TNF-Turm)



Univ.-Prof.Dr. Günther Knör
Leiter GÖCH – Oberösterreich

Molecular design of functional pi-conjugated systems for advanced applications

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The control of the optical, electrical and electrochemical properties of molecules and materials based on pi-conjugated systems represents a key issue for the development of their multiple technological applications as electrode materials, sensors, molecular electronics or active materials for organic electronic devices and photovoltaic conversion.

Since each of these field of application requires molecule and/or material possessing a specific combination of physical, chemical and electronic properties, progress in these various areas requires the definition of appropriate guidelines for the design and synthesis of functional pi-conjugated systems. This objective involves both the tuning of the electronics properties at the molecular level and the control of intermolecular interactions that *in fine* determine the ultimate collective properties of the material.

These various aspects of the molecular and supramolecular engineering of functional pi-conjugated systems will be discussed on the basis of selected examples of molecules and materials designed for applications in electrode materials, molecular electronics and photovoltaic conversion.