

## **X Plan project Advanced Research in Chemistry**

- **Sub-pico second pulse radiolysis: Laser driven accelerator is being developed to study radiation damage of DNA, charge carrier dynamics in polymers, inorganic and organic semiconductors and electron beam induced lithography**
  - **Advanced research on laser induced chemical reactions both in gas and solution phase: Photo-physics and selective chemistry**
  - **Advanced research on free radical reactions in micro & nano-heterogeneous systems**
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- **Research on novel applications of photochemistry**
  - **Radiation & photochemistry of novel extractants**
  - **Radiation & photochemistry of antioxidants**

**“...cementing the gaps...”**