

**From small molecules to proteins, from UHV to solution,  
and from interfaces to bulk studies:  
A synchrotron field report**

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We explain our experience with the use of synchrotron radiation for the study of various systems from the area of molecular and biological matter. These range from small molecular pi-systems near interfaces or in thin films to proteins in bulk solution.

For each system we try to establish at which point an influence of the radiation would become relevant and how this can be controlled.

Different strategies to monitor and avoid these effects are discussed, which differ depending on the specific system under investigation.