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Propositions
accompanying the dissertation

Tailoring molecular nano-architectures on metallic surfaces

by
Leonid Solianyk

1. On the Au(111) surface, Au adatoms can be involved in two- and threefold coordination to pyridyl organic ligands. Chapters 3 and 4.

2. A change in the structure of molecular building blocks can influence the thermal stability of the resulting self-assembled nano-architectures. Chapters 3 and 4.

3. Porous Au-coordination networks can be used for controllable tuning the electronic properties of the Au(111) surface on a macroscopic scale. Chapters 4 and 5.

4. A deep understanding of the chemical environment and conformation geometry of organic adsorbates on surfaces is essential for the development of molecular electronics. Chapter 3 and 6.

5. The time spent at synchrotrons is quite memorable not only because of the obtained experimental results and hard work, but, to a larger extent, because of the wonderful colleagues with whom you work.

6. The acknowledgment that each of us has an individual point of view is a first step towards healthy communication.

7. Giving feedback as well as receiving it, is a delicate art.

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