New materials for energy conversion and storage
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Main research interests are in the field of the synthesis and reactivity of transition metals complexes and their applications in homogeneous and heterogeneous catalysis. The laboratory is equipped with a carbonylation plant, GC, HPLC and other instruments dedicated to the following research lines:
- synthesis, structural investigation and reactivity of palladium complexes;
- organic synthesis catalyzed by transition metals via carbonylation and hydrogenation;
- catalytic copolymerization (carbon monoxide-olefins) for polyketones production.

The group is currently involved in two projects for the synthesis and functionalization of materials for energy conversion and storage.