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**VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI**

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z naslovom:

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Abstract

In the interstellar space a number of compounds with low valent elements have been spectroscopically characterized. In our ongoing research we are trying to synthesize those compounds with low valent elements with the support of NHC (N-heterocyclic carbene) or cAAC (cyclo alkylamino carbene). The latter with a small HOMO-LUMO gap are interesting ligands for the preparation of radicals in the coordination sphere of metals.

The results and properties of aluminum, silicon, zinc, manganese and nickel complexes for the activation and catalysis with small molecules will be discussed. Moreover, single metal atoms in the formal zero oxidation state can be trapped and stabilized at room temperature.