



VABILO NA PREDAVANJE

Magnetic Switching, Small Molecule Activation and Catalysis with 1,2,3.....Click

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Vljudno vabljeni!

Abstract:

The Cu(I) catalyzed cycloaddition reaction between azides and alkynes delivers substituted 1,2,3-triazoles in high yield and regioselective. In this contribution we will present recent results on the use of 1,2,3-triazoles and 1,2,3-triazol-5-ylidenes as ligands in coordination and organometallic chemistry. Selected results will be present from our laboratory wherein we will show the utility of metal complexes of tripodal triazole ligands as molecular spin crossover materials and as platforms for activating and transferring molecular oxygen to substrates. We will also present results on catalysis with metal complexes of mesoionic carbenes of the 1,2,3-triazol-5-ylidene types. Such complexes are potent catalysts for the reduction of aromatic nitro compounds, for transfer hydrogenation reactions, and for oxidation as well as C-H oxygenation reactions.