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Gold versus silver towards domino processes and diversity

Veronique Michelet

University Cote d'Azur, France

Over the past few years, significant research has been directed toward the development of new methodologies for synthetic efficiency and atom economy processes in the presence of gold and silver catalysts. We have been engaged in a wide project dedicated to the development of catalytic methodologies for the synthesis of original and functionalized carbo- and heterocycles. Our interest has been focused on the cyclization and/or functionalization of alkynes including enynes, alkynyl silyl enoethers and *o*-alkynyl

benzaldehydes. We also got interested in cycloisomerization reactions of allenols and developed sustainable catalytic systems. Despite significant progress in the development of enantioselective gold(I) catalysis, challenges still remain largely as a result of the high substrate-dependency and the linear geometry the chiral gold(I) complexes. This presentation will show an overview of the latest results implying achiral and chiral gold and silver complexes.

e: veronique.michelet@unice.fr



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