

Tentative Outline Special Issue for LETTERS IN ORGANIC CHEMISTRY

Guest Editor: Dr. György Keglevich

Preparation Of P-Ligands And Their Transition Metal Complexes; The Use Of Different Catalysts In Regio- And Enantioselective Syntheses

Aims & Scope:

The topic involving transient metal complexes is closely related to environmentally friendly (green) chemistry, as one of the basic principles suggests the application of catalysts to have efficient and selective reactions in hand. Transition metal complexes may involve different metals, like platinum, palladium, rhodium, cobalt, nickel, etc. These complexes maybe used in homogeneous catalytic transformations like, hydrogenation, hydroformylation and couplings. The topic suggested is indeed in the focus these days and hence surely hot. Optically active P-heterocycles obtained by resolution will also be included as P-ligands. Sugar-based lariat ethers with P-containing side arms fit also well as these species are useful catalysts in enantioselective syntheses.

Key words: "Green" organic chemistry, ionic liquids, phase transfer catalytic results, green chemical transformations.

Subtopics:

The names and tentative titles are the following:

- 1.) Prof. L.ászló Kollár et al: Palladium-catalyzed alkoxy- and aminocarbonylation of iodoalkenes and iodoarenes.
- 2.) Prof. Irina Odinets et al: Pincer complexes with organothiophosphorus ligands.
- 3.) Prof. Ferenc Ungváry: "Selective carbonylation of diazoalkanes with carbonyl-cobalt complexes.
- 4.) György Keglevich (Guest-Ed), Andrea Kerényi, Viktória Kovács, Viktória Ujj: Platinum complexes of P-heterocycles.
- 5.) Dr Viktória Ujj et al.: Optically active 5- and 6-Membered P-heterocycles as potential P-ligands.
- 6.) Prof. Péter Bakó, Zsolt Rapi, György Keglevich: Application of sugar-based lariate ethers in asymmetric syntheses.
- 7.) Professor Pascal Le Floch and Nicolas Mézailles: ???
- 8.) Professor Piotr Kielbasinski et al.: ???

Submission Deadline for Authors: June 30, 2010.