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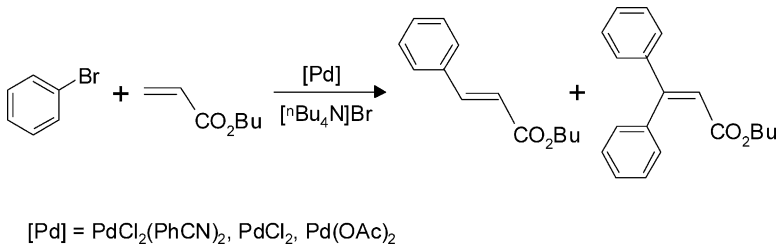

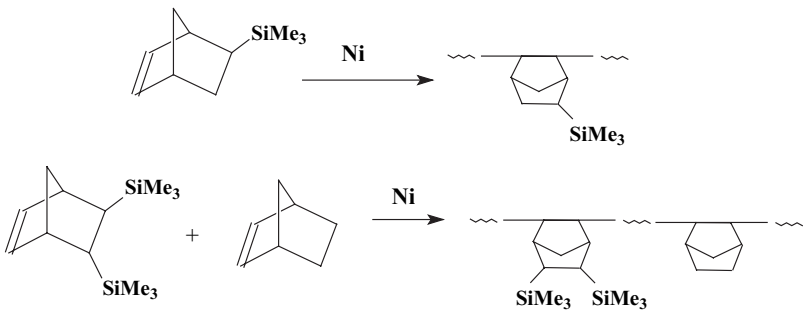

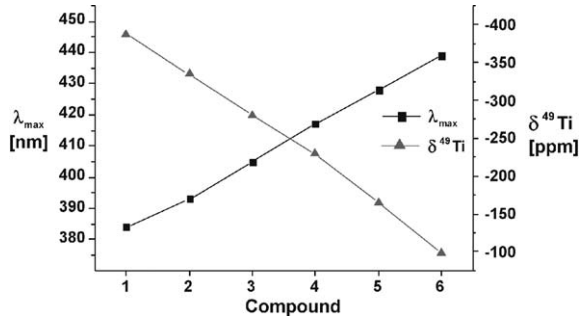

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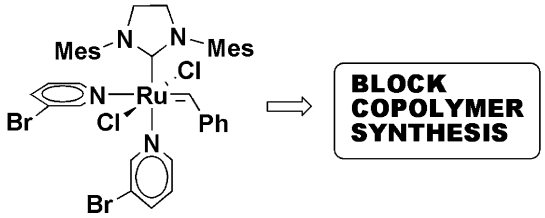
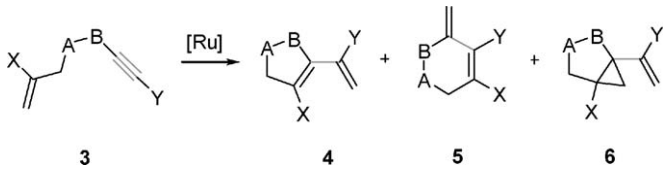
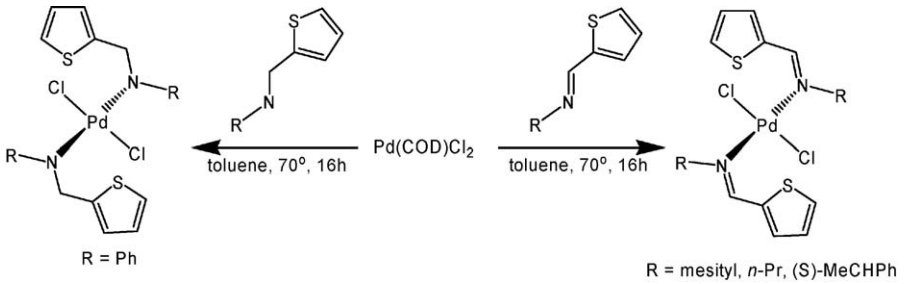


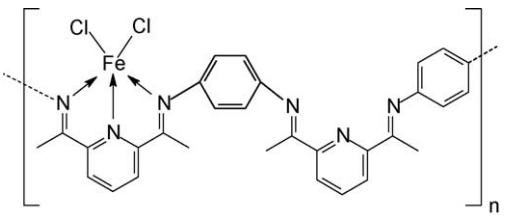
The structure–selectivity relationship of the intramolecular enyne metathesis of **3** catalyzed by various ruthenium carbenes was investigated. This study witnesses the very subtle and cooperative influence of different parameters on the stereochemical course of this reaction.

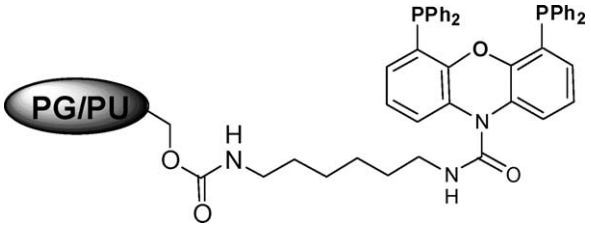


A range of square-planar *trans*-dichloro palladium(II) complexes containing *N*-(2-thiophenecarboxaldehyde)-aniline and *N*-(2-thienylmethyl)-aniline derived ligands has been synthesized and characterized. The use of these complexes as catalysts for the Suzuki coupling of various aryl bromides and phenyl boronic acid has been examined.

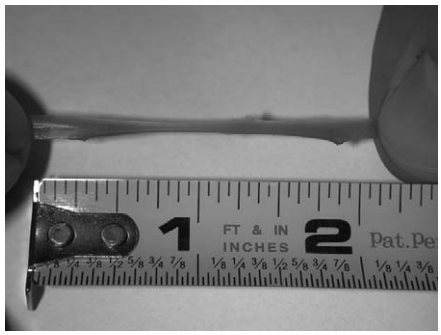


Polymeric Schiff bases can be used as ligands for the preparation of heterogeneous olefin polymerization catalysts. The structure of the ligand backbone determines the properties of the iron containing catalysts. Force field calculations help to explain the results.

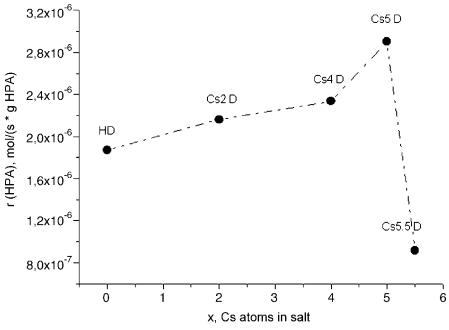




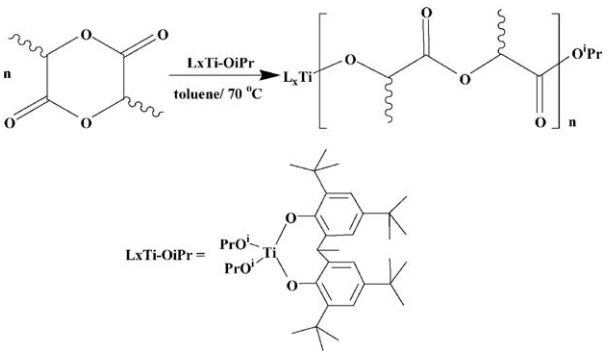
The utility and feasibility of acyclic diene metathesis polycondensation in the synthesis of silicon/carbon hybrid materials is presented. Silylative coupling polycondensation is also presented as complementary method in the preparation of such hybrids. Both methods lead to formation of unsaturated polymeric systems that might be valuable materials in the vast number of applications.

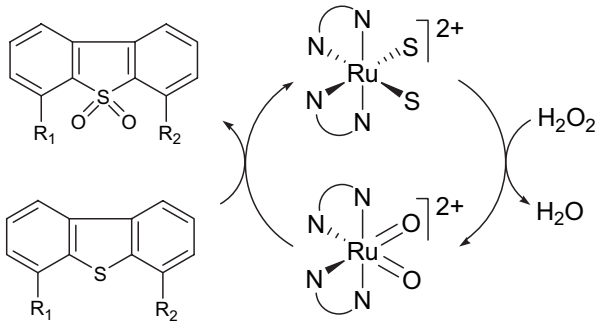


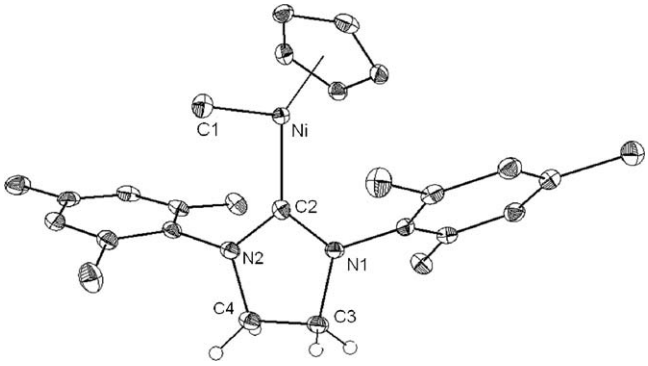
The physico-chemical properties of a series of partly substituted cesium salts $Cs_xH_{6-x}P_2W_{18}O_{62}$ of Wells–Dawson heteropolyacid have been investigated. Cesium salts were tested as catalysts in gas phase synthesis of ethyl-*tert*-butyl ether (ETBE).



Catalytic properties of titanium bis(aryloxo) complexes with 2,2′-ethylidenebis(4,6-di-*tert*-butylphenol) (edbp-H_2) towards polymerization of cyclic esters are reported.







An asymmetric high-pressure (ca. 10 kbar) reaction of various 2-alkylfurans and atmospheric-pressure reaction of 2-methoxyfuran with alkyl glyoxylates, catalyzed by the chiral (salen)Co complexes, has been studied. The reaction afforded chiral furfuryl alcohols, compounds of significant synthetic interest, with moderate to good enantioselectivity (up to 76% ee).