



2nd European Chemistry Conference

May 15-16, 2019 Amsterdam, Netherlands

Catalysis of Organic Reactions in Binary Solvent Mixtures

Wojciech J. Kinart

University of Lodz, Poland

We have studied the catalysis of organic reactions in binary solvent mixtures and concentrated solutions of inorganic salts. These reactions include: metalloene reactions of aldehydes, ketones and tin phenoxides, hydrostannylation of alkenes and free radical additions leading to formation of new carbon-carbon bonds. We have been interested in explanation of the catalytic effect of different lithium salts on studied reactions. We have attributed it to the large “internal pressure” of the solvent, increase of its polarity and viscosity, Lewis acidity and facilitation of formation of the transition state.

Biography:

Dr. Wojciech J. Kinart was born on the 17th of May 1953 in Łódź. He graduated from the University of Łódź in 1977. On the 17th of April, 1980, he was awarded the Ph.D Degree in Chemistry. In 1996 he was awarded the habilitation degree in Chemistry at the University of Łódź. He is the author of 120 papers, two chapters in Comprehensive Heterocyclic Chemistry III, Oxford, 2008; and one chapter in Tin Chemistry: Fundamentals, Frontiers and Applications, Wiley, 2008. Research areas of his interest include: organometallic chemistry, organic and organometallic peroxides, ene reaction and metalloene reaction, physicochemical studies of equilibria in liquid solvent mixtures.