



SEMINAR ANNOUNCEMENT

THURSDAY, 11.07.2019

17:15 H ZEMOS 0.17

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"Halogen bonding and ion-dipole interactions in low polarity solvents as tools for constructing (stereo)selective catalysts"

Abstract. Our research interests encompass the design of efficient (stereo)selective catalysts for transformations of interest, and the study of their use to prepare products of biological or pharmaceutical relevance. Crucial aspects of this work include modular design of the catalysts; use of versatile synthetic procedures (organic and inorganic transformations, or supramolecular processes in low polarity solvents); incorporation of regulation mechanisms for their active-site geometry; and computational study of their catalytic cycles (through collaborations). The application of our supramolecular catalytic systems in hydroformylations, metal carbene C-H insertions and alkyne hydroborations will be discussed.

