

## *Organocatalysis - new directions*

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**The Danish National Research Foundation, Denmark**

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- 1984** Ph.D. in combination of organic and theoretical chemistry.
- 1985** Visiting Scientist with Professor Roald Hoffmann, Cornell University, USA.
- 1985** Assistant Professor at Aarhus University.
- 1989** Associate Professor at Aarhus University.
- 1992** Research Professor – Minister appointed.
- 1993** Professor at Aarhus University.
- 1994** Member of the Royal Danish Academy of Sciences and Letters.
- 1999** Member of Danish Academy of Technical Sciences.
- 2004** Fellow of the Royal Society of Chemistry.

### **RESEARCH INTERESTS**

The research involves experimental organic-, organometallic-, physical- and computational chemistry.

The specific topics currently investigated are mainly:

- 1- metal-catalyzed addition reactions
  - a. cycloaddition reactions
  - b. Friedel-Crafts reactions
  - c. Additions to alkenes, carbonyl compounds and imines
2. Chiral Lewis acids as enzyme-mimics
3. Computational calculations of reactions.