

Preface

Without any doubt organocatalysis belongs to the most exciting and innovative chapters of organic chemistry today.

Since this chapter was first opened systematically 10 years ago, a plethora of methods and catalysts have been developed to solve problems of organic chemistry. More and more these methodologies have been applied in total syntheses of natural products. This is what this two-volume book set wants to demonstrate – the full power of organocatalysis.

Asymmetric C-C bond formation processes form the subject of the second book while functionalization, catalysts and general aspects of organocatalysis are covered in the first one. Overlappings cannot be entirely avoided by such an approach. However, often these overlappings are desirable and valuable in order to illustrate a methodology by different views as this is true for asymmetric hydrogenation, enantioselective conjugate hydride addition, oxidation or transfer hydrogenation catalyzed by chiral primary amines.

It took great pleasure in working together with a team of leading experts in this field. I have to thank them for organizing these overviews.

Also, I thank the team at Springer UK to help us to publish these results.

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and Desymmetrization

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