



# Environmentally Sustainable Catalytic Asymmetric Oxidations

*Konstantin Bryliakov*

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Catalysis plays a vital role in chemical, petroleum, agriculture, polymer, electronics, pharmaceutical, and other industries. Over 90 percent of chemicals originate from catalytic processes. Toughening economic and environmental constraints have proven to be a challenge for meeting the demand of novel efficient and sustainable regio- and stereoselective catalyst systems. **Environmentally Sustainable Catalytic Asymmetric Oxidations** provides a comprehensive overview of existing ecologically friendly catalyst systems for various asymmetric oxidation processes.

Topics include:

- A survey of existing transition metal-based catalyst systems for asymmetric epoxidations (AEs) with  $O_2$  and  $H_2O_2$
- Asymmetric sulfoxidations with  $H_2O_2$  on chiral metal complexes
- An overview of various transition metal-catalyzed oxidative transformations with  $H_2O_2$  or  $O_2$  used as the terminal oxidant
- Organocatalytic asymmetric oxidations
- Catalytic processes of stereospecific oxidations of C-H functional groups
- The role that oxoiron(V) intermediates play in chemo- and stereoselective oxidations catalyzed by non-heme iron complexes

The book concludes with a discussion of the opportunities and problems associated with the industrial application of stereoselective processes of catalytic oxidation with  $H_2O_2$  and  $O_2$ . It also provides examples of processes with industrial potential.

Some of the catalysts presented in this book may serve as promising alternatives for existing catalysts—progressively replacing them in manufacturing processes and ultimately making the chemical industry greener and cleaner.

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