

A promising exploration into the green advantages of using biocatalysis in industrially relevant chemistry

Biocatalysis for Green Chemistry and Chemical Process Development offers an exciting alternative to today's complex, multidisciplinary approach to green chemistry by focusing exclusively on the most potent weapon in this field's arsenal—biocatalysis. In-depth coverage details the technological advances being made in biocatalysis-driven green syntheses of industrially important molecules, as well as how these advances show great promise in streamlining current chemical processes for reducing or eliminating hazardous substances. In addition, coverage of the biotechnological production of pharmaceuticals (small molecules, natural products and biologics), flavors, fragrance and cosmetics, fine chemicals, and more underscore the book's main goal of facilitating industrial applications of this powerful and pioneering green technology. Highlights include:

- A variety of case studies, not only in pharmaceuticals and fine chemicals, but also specialty and bulk chemicals and polymers
- A comprehensive overview of green chemistry applications of enzyme-driven transformations for a wide range of industries
- A look at the application of biocatalysis across a wide range of chemical manufacturing fields, and why it is a good sustainable manufacturing option

Biocatalysis is emerging as a transformational technology uniquely suited to deliver green chemistry solutions for safer, efficient, and more cost-effective chemical synthesis. *Biocatalysis for Green Chemistry and Chemical Process Development* serves a key role in promoting this significant and potentially world-changing technology—and offers valuable perspective on achieving widespread sustainable industrial practices.

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