Carrier-bound Immobilized Enzymes: Principles, Application and Design
Linqiu Cao, Rolf D. Schmid (Foreword by)

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DESCRIPTION

The first systematic overview of this key technique since the early 1990s, this authoritative reference is the only handbook available to include all recent developments. The author draws on his wide-ranging experience in both academia and industry to systematically cover all types of enzyme immobilization methods, such as adsorption-based and covalent immobilization, as well as enzyme entrapment and encapsulation. Throughout, a careful review of materials and techniques for the generation of functional immobilized enzymes benefits both developers and users of carrier-bound enzymes.

A must for biotechnologists, biochemists and preparative chemists using enzymes in their daily work.

ABOUT THE AUTHOR

Linqiu Cao studied Organic Chemistry and Biotechnology at the Beijing University of Science and Technology (China). He was a visiting scientist at GBF (Gesellschaft für Biotechnologische Forschung) in Braunschweig (Germany) and later moved to the University of Stuttgart (Germany) to obtain a PhD in Biotechnology. He then joined the group of Roger Sheldon at the Technical University in Delft (The Netherlands), where he pioneered a novel enzyme immobilisation technology with improved performance in biocatalytic transformations using cross-linked enzyme aggregates (CLEAs). In 2000, he joined the newly founded company Avantium in Amsterdam (The Netherlands) where he continued to develop novel enzyme crosslinking and immobilisation technology. Recently he moved to DMV in Veghel (The Netherlands).
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