



fermentation

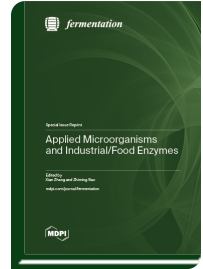


Special Issue Reprint

Applied Microorganisms and Industrial/Food Enzymes

www.mdpi.com/books/reprint/10054

Edited by
Xian Zhang
Zhiming Rao



ISBN 978-3-7258-2258-4 (Hardback)
ISBN 978-3-7258-2257-7 (PDF)

In the field of modern biotechnology, the development of microbial chassis cells and enzymes based on fermentation engineering has promoted the rapid development of synthetic biology. This reprint, based on the Special Issue "Applied Microorganisms and Industrial/Food Enzymes", integrates the latest advances in synthetic biology with the development and application of microbial cell-factories and enzymes, further promoting research on cutting-edge developments in the fermentation industry.

As the main executive components of synthetic biological systems, the evolution and modification technology of enzyme molecules can help construct and optimize new pathways in microbial systems, thereby realizing the application of new cell factories in the fermentation industry.

On the other hand, the function of complex microbial communities in traditional fermentation processes is also based on the synergistic effects between enzyme molecules. This allows microorganisms to synthesize important natural products, which are difficult or impossible to produce using traditional methods.

The research studies presented in this reprint not only showcase the current state of industrial fermentation technology but also anticipate the future trends driven by synthetic biology. With these advancements, we can optimize existing biochemistry processes and powerful microbial strains, providing a broader range of options for industrial



Order Your Print Copy

You can order print copies at
www.mdpi.com/books/reprint/10054

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.