



# Industrial Scale Natural Products Extraction

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## **Industrial Scale Natural Products Extraction** From Wiley-VCH

Covering the latest technologies in process engineering, this handbook and ready reference features high pressure processing, alternative solvents and processes, extraction technologies and biotransformations -- describing greener, more efficient and sustainable techniques. The result is an expert account of engineering details from lab-scale experiments to large-scale industrial design. The major focus is on the engineering aspects of extraction with organic and supercritical solvents, ionic liquids or surfactant solutions, and is supplemented by aspects of both up- and downstream processing, biotransformation, as well as a survey of typical products in food, pharmaceutical and cosmetic applications. This is rounded off by market developments, economic considerations and regulations requirements in the field

Authored by experts from leading industrial and academic institutions, this is essential reading for the hands-on scientist and office manager alike.

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## **Editorial Review**

### From the Back Cover

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### About the Author

Prof. Hans-Jörg Bart is the Head of the Department Process Engineering at Technical University of Kaiserslautern, Germany. He obtained his academic degrees from Technical University of Graz, Austria, and later became Head of the Christian Doppler Laboratorium "Modelling of Reactive Systems in Process Engineering". Professor Bart has authored over 300 publications, is on the editorial board of several journals, including "Chemical Engineering Technology Journal" and "CIT-Plus". Prof. Bart is Head of the ProcessNet working party "Extraction" and is an appointed board member of several scientific working parties.

Dr. Stephan Pilz is former Head of the High Pressure Technologies Development at Evonik Degussa GmbH in Trostberg, Germany and furthermore developed processes for natural substances. After passing functions in Business Development and Strategic Projects, he is now in International Sales and located in Shanghai. He received his degree from Stuttgart University, Germany, worked on his master thesis with British Gas, UK, and his PhD with Daimler Chrysler AG at Karlsruhe University. Dr. Pilz is co-chairman of the Process-Net working party "Natural Plant Extracts - Processes and Products".

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