Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products

From Elsevier

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, focusing on industrial biotechnology and bioengineering practices for the production of industrial products, such as enzymes, organic acids, biopolymers, and biosurfactants, and the processes for isolating and purifying them from a production medium.

During the last few years, the tools of molecular biology and genetic and metabolic engineering have rendered tremendous improvements in the production of industrial products by fermentation. Structured by industrial product classifications, this book provides an overview of the current practice, status, and future potential for the production of these agents, along with reviews of the industrial scenario relating to their production.

- Provides information on industrial bioprocesses for the production of microbial products by fermentation
- Includes separation and purification processes of fermentation products
- Presents economic and feasibility assessments of the various processes and their scaling up
- Links biotechnology and bioengineering for industrial process development

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products

From Elsevier

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, focusing on industrial biotechnology and bioengineering practices for the production of industrial products, such as enzymes, organic acids, biopolymers, and biosurfactants, and the processes for isolating and purifying them from a production medium.

During the last few years, the tools of molecular biology and genetic and metabolic engineering have rendered tremendous improvements in the production of industrial products by fermentation. Structured by industrial product classifications, this book provides an overview of the current practice, status, and future potential for the production of these agents, along with reviews of the industrial scenario relating to their production.

- Provides information on industrial bioprocesses for the production of microbial products by fermentation
- Includes separation and purification processes of fermentation products
- Presents economic and feasibility assessments of the various processes and their scaling up
- Links biotechnology and bioengineering for industrial process development

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier Bibliography

- Rank: #3579343 in eBooks
- Published on: 2016-09-17
- Released on: 2016-09-17
- Format: Kindle eBook

Editorial Review

About the Author
Professor Ashok Pandey is currently with the Center of Innovative and Applied Bioprocessing, Mohali, Punjab, India; he was the former Deputy Director for CSIR's National Institute for Interdisciplinary Science and Technology at Trivandrum, where he head the Centre for Biofuels and Biotechnology Division. Professor Pandey's research interests are on bio-based economy for the production of fuels and chemicals. He has over 1000 publications and communications, which include 14 patents and design copyright, 34 books, 99 book chapters, and 391 original and review papers. Professor Pandey is the recipient of many national and international awards and fellowships, including Fellow of International Society for Energy, Environment and Sustainability, National Academy of Science (India), Biotech Research Society, India, and the International Organization of Biotechnology and Bioengineering. He was Chairman of the International Society of Food, Agriculture and Environment, Finland (Food & Health) from 2003-2004. He is Founder President of the Biotech Research Society, India (www.brsi.in); International Coordinator and General Secretary of International Forum on Industrial Bioprocesses, France (www.ifibiop.org), and Vice-President of the International Society for Energy, Environment & Sustainability (www.isees.org) and All India Biotech Association (www.aibaonline.com). Professor Pandey is Editor-in-chief of Bioresource Technology, Honorary Executive Advisors of Journal of Water Sustainability and Journal of Energy and Environmental Sustainability and editorial board member of several international and Indian journals. Prof. Pandey was also recently honoured as the Most Cited Author as per the Shanghai Ranking's Global Ranking of Academic Subjects 2016

Dr Sangeeta Negi is Assistant Professor in the Department of Biotechnology at the Motilal Nehru National Institute of Technology, India. She has a first class Master's degree in Biochemistry and a PhD in Biotechnology from the Indian Institute of Technology, Kharagpur. She has also worked as an academic guest at the Biological Engineering Department; Polytech Clermont-Ferrand; Universite Baise Pascal, France; and at the Bioenergy and Energy Planning Research Group (BPE); Swiss Federal Institute of Technology, Lausanne (EPFL) Switzerland. Dr Negi's current research interests are in the area of biofuels, industrial enzymes, and bioremediation. She is an editorial board member of the Journal of Waste Conversion, Bioproducts and Biotechnology, and Journal of Environmental Science and Sustainability. She has been awarded as "Outstanding reviewer" by Elsevier and has won the Young Scientist Award by DST at the National Seminar on Biological and Alternative Energies Present and Future organized by Andhra University, Visakhapatnam in 2009. She has also won Best Poster Award at the International Congress on Bioprocesses in Food Industries (ICBF 2008) at Hyderabad. Dr Negi has contributed to nearly 50 publications, including review articles, original papers, and conference communications.

Prof Carlos Ricardo Soccol is the research group leader of DEBB (Department of Bioprocess Engineering and Biotechnology) at the Federal University of Paraná, Brazil, with twenty years of experience in biotechnological research and development of bioprocesses with industrial application. He is graduated in Chemical Engineering (UFPR, 1979), Master in Food Technology (UFPR, 1986) and Ph.D. in Genie Enzymatique, Microbiologie et Bioconversion (Université de Technologie de Compiègne,- France, 1992). Postdoctor at Institut ORSTOM/IRD (Montpellier, 1994 and 1997) and at the Université de Provence et de la Méditerranée (Marseille, 2000). He is HDR Professor at Ecole d'Ingénieurs Supériure of Luminy, Marseille-France. He has experience in the areas of Science and Food Technology, with emphasis on Agro-industrial and Agroalimentary Biotechnology, acting in the following areas: bioprocess engineering and solid state fermentation, submerged fermentation, bioseparations, industrial bioprocesses, enzyme technology, tissue

culture, bio-industrial projects and bioproduction. He is currently Coordinator of Master BIODEV-UNESCO, Associate Editor of five international journals and Editor in Chief of Brazilian Archives of Biology and Technology Journal. Professor Soccol received several national and international awards which include Science & Technology award of the Govt. of Paraná (1996), Scopus/Elsevier award (2009), Dr. Honoris Causa, University Blaise Pascal-France (2010), Outstanding Scientist - 5th International Conference on Industrial Bioprocesses, Taipei, Taiwan (2012), Elected Titular Member of the Brazilian Academy of Sciences (2014). He is a technical and scientific consultant of several companies, agencies and scientific journals in Brazil and abroad. He has supervised and formed 96 Master Science students, 48 PhD students and 14 Post-Doctorate Students. He has 995 publications/communications which include 17 books, 107 book chapters, 270 original research papers, 557 research communications in international and national conferences and has registered 44 patents. His research articles until the moment were cited (Scopus DataBase) 5600 Times with Index h=36.

Users Review

From reader reviews:

Corey Gardner:

Hey guys, do you wants to finds a new book to learn? May be the book with the concept Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products suitable to you? The book was written by popular writer in this era. Typically the book untitled Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Productsis the main of several books which everyone read now. This book was inspired many men and women in the world. When you read this publication you will enter the new dimensions that you ever know just before. The author explained their idea in the simple way, thus all of people can easily to recognise the core of this guide. This book will give you a great deal of information about this world now. So you can see the represented of the world in this particular book.

Rose Villegas:

People live in this new day time of lifestyle always try to and must have the time or they will get lot of stress from both daily life and work. So , whenever we ask do people have spare time, we will say absolutely sure. People is human not just a robot. Then we inquire again, what kind of activity are there when the spare time coming to anyone of course your answer will probably unlimited right. Then ever try this one, reading textbooks. It can be your alternative in spending your spare time, the actual book you have read is definitely Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products.

Gloria White:

As we know that book is essential thing to add our information for everything. By a reserve we can know everything we wish. A book is a pair of written, printed, illustrated as well as blank sheet. Every year has been exactly added. This book Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products was filled regarding science. Spend your time to add your knowledge about your scientific research competence. Some people has different feel when they reading the book. If you know how big advantage of a book, you can really feel enjoy to read a e-book. In the modern

era like at this point, many ways to get book that you simply wanted.

Rubin Bourne:

Do you like reading a book? Confuse to looking for your favorite book? Or your book had been rare? Why so many concern for the book? But any kind of people feel that they enjoy with regard to reading. Some people likes reading through, not only science book but additionally novel and Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products or perhaps others sources were given know-how for you. After you know how the great a book, you feel desire to read more and more. Science e-book was created for teacher as well as students especially. Those books are helping them to bring their knowledge. In additional case, beside science guide, any other book likes Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products to make your spare time considerably more colorful. Many types of book like this.

Read Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier for online ebook

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier books to read online.

Online Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier ebook PDF download

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier Doc

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier Mobipocket

Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products From Elsevier EPub