



New Biocides Development: The Combined Approach of Chemistry and Microbiology (ACS Symposium Series)

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This book covers the latest progress on wide topics of biocides R&D: prioncides, biofilms, topical biocides, new biocides synthesis, mechanisms, structure-activity relationship, hospital and topical disinfection, biocides environmental effect, naturally occurring biocides, oxidizing biocides, aldehyde biocides, boron derivative biocides, traditional and non-classical biocides from most known researchers in the fields worldwide. The latest prion inactivation breakthrough discovery by Stanley B. Prusiner's group is also included. Historically, it was the interplay of chemistry and microbiology that helped to discover new biocides and new methods of disinfection. Tight integration of chemistry & microbiology for effective biocides discovery and development is the major theme of this book. This approach makes this book especially valuable for researchers and traditional practitioners alike in biocide field. Recent progress in both chemistry and life sciences has provided tremendous new opportunities to evaluate old and new biocides with new hopes.

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New Biocides Development: The Combined Approach of Chemistry and Microbiology (ACS Symposium Series) From American Chemical Society Bibliography

- Rank: #4117147 in Books
- Published on: 2007-09-07
- Original language: English
- Number of items: 1
- Dimensions: 6.20" h x 1.10" w x 9.00" l, 1.74 pounds
- Binding: Hardcover
- 520 pages

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Editorial Review

About the Author

Dr. Peter C. Zhu, Research Fellow of ALZA, Johnson & Johnson, is a formulation chemist and an expert of disinfection biocides and pharmaceutical preservatives with numerous patents and publications. He first proposed that the aldehyde penetration mechanism that explained why only a few aldehyde biocides (but not the others) are highly effective for microbial disinfection (Curr. Org. Chem. (2005), 9, 1155). This new theory provides great value for the understanding of biocides action mechanism and for the directions of new antimicrobial agents.

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