Description Springer Link



Editors: Dhiraj Kumar, Mohammad Shahid

Covers manifold applications of natural insect products in biomedicine, nutrition and agriculture

Presents the most important, economically relevant insects

Encourages readers to conduct further research on insect based natural products beneficial for mankind

5016 Accesses | 16 <u>Citations</u> | 5 <u>Altmetric</u>

Sections

Table of contents

About this book

<u>Keywords</u>

Editors and Affiliations

<u>About the editors</u>

Bibliographic Information

Access via your institution

💙 eBook

Price includes VAT (India)

 \rightarrow

EUR 85.59

EUR 139.99

- ISBN: 978-3-030-36610-0
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

Buy eBook

Softcover Book EUR 99.99

> Hardcover Book

Learn about institutional subscriptions

This is a preview of subscription content, access via your institution.

Table of contents (9 chapters)

Search within book

Front Matter

Pages i-x

<u>PDF</u> **⊻**

Q

Polyphenols and Flavonoids from Honey: A Special Focus on Diabetes

Visweswara Rao Pasupuleti, Chandra Sekhar Arigela Pages 1-20

Chemistry and Applications of Lac and Its By-Product

K. K. Sharma, A. Roy Chowdhury, S. Srivastava Pages 21-37

Silk: An Amazing Biomaterial for Future Medication

Dhiraj Kumar, Sadhana Shrivastava, Chengliang Gong, Sangeeta Shukla Pages 39-49

Insect Chitin and Chitosan: Structure, Properties, Production, and

Implementation Prospective

Manish Kumar, V. Vivekanand, Nidhi Pareek Pages 51-66

Recent Advances in the Insect Natural Product Chemistry: Structural Diversity

and Their Applications

Luqman Jameel Rather, Mohammad Fawad Ansari, Qing Li Pages 67-94

Silkworm: A Unique Creature for Natural Products

R. Venkatesh Kumar, Devika Srivastava Pages 95-109

Present and Future Prospects on Nutritious Feeding Using Insects

Mohd. Yusuf Pages 111-119

Insect Pheromones and Its Applications in Management of Pest Population

Subhashree Subhadarsini Mishra, Sabita Shroff, Jayanta Kumar Sahu, Prajna Parimita Naik, Iswar Baitharu Pages 121-136

Non-protein Chemical Compounds from Lepidopteran Insect Cocoons

M. Sayed Iqbal Ahamad, Kari Neetha, Shyam Kumar Vootla Pages 137-156

Back to top **↑**

Back to top **↑**

About this book

This book reviews the latest research on bioproducts from various economically important insects, such as silkworms, honey bees, lac and drosophila, and termites, and discusses their general, biomedical and industrial applications in detail. It includes chapters focusing on insects as a food source, probiotics, silk-based biomaterials, insect pheromones, insects as biomedicine source, pupa

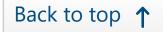


Keywords		
Bombyx mori	yellow biotechnology propolis arthropod chemistry	
silkworm bi	omaterials Entomology	
Back to top ↑		

Editors and Affiliations

UNESCO Satellite Centre for Trace Element Research, School of Studies in Zoology, Jiwaji University, Gwalior, India Dhiraj Kumar

School of Culture and Creative Arts, University of Glasgow, Glasgow, UK, Department of Fibers and Textile Processing Technology, Institute of Chemical Technology, Mumbai, India Mohammad Shahid



About the editors

Dr. Dhiraj Kumar holds a doctorate in Animal Science from B.B. Ambedkar University, India and a post-doctorate from Soochow University, China. Currently, he is working as a Dr. D.S. Kothari fellow at Jiwaji University, India. He also served as an Assistant Professor at the Department of Zoology, Guru Ghasidas Vishwavidyalaya, India. Dr. Kumar has published 29 research papers in leading international journals, two books (10000+ downloads), five book chapters, three international proceedings and one patent (2 filed). He is also a reviewer for numerous SCI journals. Dr. Kumar has received several national & international awards for his contributions in biological science. Dr. Kumar's current research focus is metagenomics, natural products, novel wound healing patches and biomedicines.

Dr. Mohammad Shahid received his Ph.D. in Organic Chemistry from the Jamia Millia Islamia, New Delhi (India). He has contributed to 34 publications, including two books and three book chapters. His publications have attracted more than 1500 citations to date. He also coordinated the publication of a special issue of the Research Journal of Textile and Apparel. Dr. Shahid has been the recipient of several prestigious fellowships for his doctoral and postdoctoral research, such as the UGC Central University Ph.D. fellowship, China postdoctoral fellowship (Soochow University, China), Marie Curie individual fellowship (University of Glasgow, UK) and Dr. D S Kothari postdoctoral fellowship. He is currently involved in a project focusing on superhydrophobic finishing of nanocolored textiles at the Department of Fibers and Textile Processing Technology, Institute of Chemical Technology, Matunga, Mumbai. His research interests include natural dyes and dyeing, the chemistry of textile dyeing and functional finishing, functional coatings, and analytical methods for historical dye analysis.

Back to top 1

Book Title Natural Materials and Products from Insects: Chemistry and Applications	Editors Dhiraj Kumar, Mohammad Shahid	DOI https://doi.org/10.1007/978-3- 030-36610-0
Publisher Springer Cham	eBook Packages <u>Biomedical and Life Sciences</u> , <u>Biomedical and Life Sciences</u> (<u>R0</u>)	Copyright Information Springer Nature Switzerland AG 2020
Hardcover ISBN 978-3-030-36609-4 Published: 29 February 2020	Softcover ISBN 978-3-030-36612-4 Published: 28 February 2021	eBook ISBN 978-3-030-36610-0 Published: 28 February 2020
Edition Number 1	Number of Pages X, 156	Number of Illustrations 19 b/w illustrations, 25 illustrations in colour
Topics <u>Invertebrate Zoology</u> , <u>Biotechnology</u> , <u>Biomaterials</u>		
Back to top 1		

Over 10 million scientific documents at your fingertips

Academic Edition Corporate Edition

HomeImpressumLegal informationPrivacy statementCalifornia Privacy StatementHow we use cookiesManage cookies/Do not sell my dataAccessibilityFAQContact usAffiliate program

Not logged in - 106.203.249.201 Not affiliated **SPRINGER NATURE**

© 2023 Springer Nature Switzerland AG. Part of Springer Nature.