



1st ed. 2019, XVII, 340 p. 72 illus., 29 illus. in color.

### Printed book

Hardcover

129,99 € | £109.99 | \$159.99

<sup>[1]</sup>139,09 € (D) | 142,99 € (A) | CHF 153,50

Softcover

99,99 € | £89.99 | \$119.99

<sup>[1]</sup>106,99 € (D) | 109,99 € (A) | CHF 118,00

### eBook

106,99 € | £87.50 | \$119.00

<sup>[2]</sup>106,99 € (D) | 106,99 € (A) | CHF 122,50

Available from your library or [springer.com/shop](http://springer.com/shop)

### MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

Ram Naresh Bharagava (Ed.)

# Environmental Contaminants: Ecological Implications and Management

Series: Microorganisms for Sustainability

- Provides a detailed overview of natural and anthropogenic sources of various toxic environmental contaminants, their toxicological effects in environments, humans, animals and plants as well as their management (biodegradation and bioremediation) and approaches for the cleanup of contaminated environments
- Includes various emerging and eco-friendly waste management approaches and their useful byproducts
- Is a valuable resource for students, scientists and researchers in microbiology, biotechnology, environmental sciences
- Offers insights into the ecological & health implications, as well as the management and challenges of various environmental contaminants

As we know, rapid industrialization is a serious concern in the context of a healthy environment. Various physico-chemical and biological approaches for the removal of toxic pollutants are available, but unfortunately these are not very effective. Biological approaches using microorganisms (bacterial/fungi/algae), green plants or their enzymes to degrade /detoxify environmental contaminants such as endocrine disrupting chemicals, toxic metals, pesticides, dyes, petroleum hydrocarbons and phenolic compounds are eco-friendly and low cost. This book provides a much-needed, comprehensive overview of the various types of contaminants, their toxicological effects on the environment, humans, animals and plants as well as various eco-friendly approaches for their management (degradation/detoxification). As such it is a valuable resource for a wide range of students, scientists and researchers in microbiology, biotechnology, environmental sciences.

Order online at [springer.com](http://springer.com) / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com). / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

