1. Record Nr. UNINA9910141316403321

Titolo Pollutants, human health and the environment [[electronic resource]]:

a risk based approach / / editors, Jane A. Plant, Nikolaos Voulvoulis, K.

Vala Ragnarsdottir

Pubbl/distr/stampa Chichester, : Wiley-Blackwell, 2012

ISBN 1-119-95106-2

1-283-45410-6 9786613454102 1-119-95012-0 1-119-95011-2

Descrizione fisica 1 online resource (357 p.)

Altri autori (Persone) PlantJane A

RagnarsdottirKristin Vala <1954->

VoulvoulisNikolaos

Disciplina 363.73

363.738

Soggetti Pollution - Environmental aspects

Pollution - Health aspects

Nature - Effect of human beings on

Electronic books.

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references and index.

Nota di contenuto POLLUTANTS, HUMAN HEALTH AND THE ENVIRONMENT: A RISK BASED

APPROACH; Contents; Forewords; Tribute; The Editors; Contributors;

Acknowledgements; Introduction; 1 The scientific appraisal of hazardous substances in the environment; 1.1 Introduction; 1.2 Fundamental concepts of toxicology; 1.3 Some notions of environmental epidemiology; 1.4 Scientific evidence and the

precautionary principle; 1.5 Uncertainty and controversy: the endocrine disruption example; 1.6 Concluding remarks; References; 2 Regulatory systems and guidelines for the management of risk; 2.1 Introduction

2.2 Current regulation on chemicals 2.3 Guideline values; 2.4 Conclusions and recommendations; References; 3 Essential and

beneficial trace elements; 3.1 Introduction; 3.2 Hazardous properties; 3.3 Sources: 3.4 Environmental pathways: 3.5 Effects on human receptors; 3.6 Risk reduction; References; 4 Toxic trace elements; 4.1 Introduction; 4.2 Hazardous properties; 4.3 Sources; 4.4 Environmental pathways; 4.5 Effects on human receptors; 4.6 Risk reduction; References; 5 Radioactivity and radioelements; 5.1 Introduction; 5.2 Hazardous properties; 5.3 Sources; 5.4 Environmental pathways 5.5 Bioaccessibility and bioavailability 5.6 Risk reduction; References; 6 Industrial chemicals: 6.1 Introduction: 6.2 Hazardous properties: 6.3 Sources; 6.4 Environmental pathways; 6.5 Human health; 6.6 Risk reduction and future trends; References; 7 Agricultural pesticides and chemical fertilisers; 7.1 Introduction; 7.2 Pesticides; 7.3 Fertilisers; 7.4 Risk reduction for pesticides and chemical fertilisers; References; 8 Pharmaceuticals and personal-care products; 8.1 Introduction; 8.2 Hazardous properties: 8.3 Anthropogenic sources: 8.4 Pathways and environmental fate

8.5 Physiological effects8.6 Risk assessment, communication and reduction; 8.7 Future trends; References; 9 Naturally occurring oestrogens; 9.1 Introduction; 9.2 Hazardous properties; 9.3 Sources; 9.4 Environmental pathways; 9.5 Effects on humans; 9.6 Risk reduction; References; 10 Airborne particles; 10.1 Introduction; 10.2 Hazardous properties; 10.3 Sources; 10.4 Global pathways; 10.5 Health effects of inhaled particulate material; 10.6 Risk reduction and future trends; References; 11 Engineered nanomaterials; 11.1 Introduction; 11.2 Useful and hazardous properties; 11.3 Sources of NPs 11.4 Environmental pathways11.5 Regulation and effects on human receptors; 11.6 Future trends and risk reduction; References; Conclusions: pollutants, risk and society; Index

Sommario/riassunto

Pollutants, Human Health and the Environment is a comprehensive, upto-date overview of environmental pollutants that are of current concern to human health. Clearly structured throughout, the main body of the book is divided by pollutant type with a chapter devoted to each group of pollutants. Each chapter follows a similar format to facilitate comparison and discussion. For each pollutant, the authors describe the sources, pathways, environmental fate and sinks as well as known toxicological effects. Importantly, the second chapter on heavy metals and other inorganic substanc