

Biophysico-Chemical Processes in Environmental Systems Series



Sponsored by The Division of Chemistry and the Environment of the International Union of Pure and Applied Chemistry (IUPAC), the **Biophysico-Chemical Processes in Environmental Systems Series** addresses the fundamentals of physical-chemical-biological interfacial interactions in the environment and

the impacts on: the transformation, transport and fate of nutrients and pollutants; food chain contamination and food quality and safety, and ecosystem health, including human health. In contrast to classical books that focus largely on separate physical, chemical, and biological processes, this

unique book series integrates the frontiers of knowledge on both fundamentals and impacts on interfacial interactions of these processes in the global environment.

With the rapid developments in environmental physics, chemistry and biology, it is becoming much harder, if not impossible, for scientists to follow new developments outside their immediate area of research by reading the primary research literature. The **Biophysico-Chemical Processes in Environmental Systems Series** captures pertinent research topics of significant current interest, and presents to the environmental science community a distilled and integrated version of new developments in biophysico-chemical processes in environmental systems.

THE FIRST TWO VOLUMES OF THE SERIES include:

BIOPHYSICO-CHEMICAL PROCESSES OF HEAVY METALS AND METALLOIDS IN SOIL ENVIRONMENTS

Edited by ANTONIO VIOLANTE, *University of Naples Federico II, Italy*; PAN MING HUANG, *Professor Emeritus of Soil Science, University of Saskatchewan, Saskatoon, Canada*; and GEOFFREY MICHAEL GADD, *University of Dundee, Scotland*

"This book is an important contribution to the literature on soil contamination by metals and its remediation."

— JOURNAL OF HAZARDOUS MATERIALS

Written by a multidisciplinary group of soil and environmental scientists, **Biophysico-Chemical Processes of Heavy Metals and Metalloids in Soil Environments** provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments. The book covers pollutants' speciation, mobility, bioavailability and toxicity, and impacts on development of innovative restoration strategies. In addition, the development of innovative remediation strategies for polluted soils is covered, including applicable advances in spectroscopy.

978-0-471-73778-0 ~ Hardcover ~ 658 pages ~ January 2008
US \$155.00 ~ CAN \$185.99 ~ £103.00 ~ €135.00

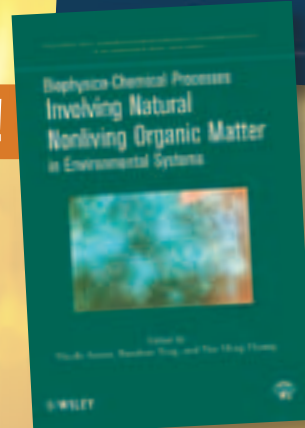
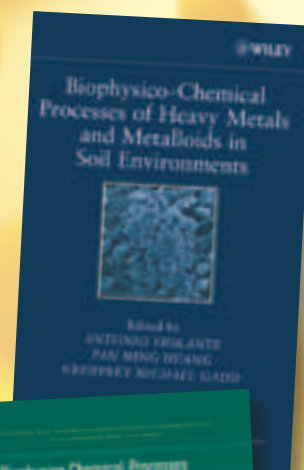
BIOPHYSICO-CHEMICAL PROCESSES INVOLVING NATURAL NONLIVING ORGANIC MATTER IN ENVIRONMENTAL SYSTEMS

Edited by NICOLA SENESI, *University of Bari, Bari, Italy*; BAOSHAN XING, *University of Massachusetts, Amherst, MA*; PAN MING HUANG, *Professor Emeritus of Soil Science, University of Saskatchewan, Saskatoon, Canada*

Bringing together world-renowned researchers to explore natural nonliving organic matter (NOM) and its chemical, biological, and ecological importance, **Biophysico-Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems** offers an integrated view of the dynamics and processes of NOM. This multidisciplinary approach allows for a comprehensive treatment encompassing all the formation processes, properties, reactions, environments, and analytical techniques associated with the latest research on NOM.

978-0-470-41300-5 ~ Hardcover ~ 896 pages ~ July 2009
US \$195.00 ~ CAN \$234.00 ~ £130.00 ~ €165.00

NEW!



ORDERING INFORMATION

North, Central & South America

Tel: 877.762.2974

Email: custserv@wiley.com • Internet: www.wiley.com

Europe, Middle East, Africa & Asia

Tel: +44 (0) 1243 843 294

Email: cs-books@wiley.co.uk • Internet: www.wileyurope.com

Germany, Switzerland, & Austria

Tel: +49 (0) 6201 606 400

Email: service@wiley-vch.de • Internet: www.wiley-vch.de



ABOUT THE SERIES EDITORS

PAN MING HUANG, PhD, FAAAS, FASA, FCSSS, FSSSA, FWIF, is Professor Emeritus of Soil Science at the University of Saskatchewan in Saskatoon, Canada. He received the Distinguished Researcher Award from the University of Saskatchewan and the Soil Science Research Award from the Soil Science Society of America.

NICOLA SENESI, PhD, FSSSA, FASA, FPSSS, is Professor of Soil Chemistry and Head of the Department of Agroforestry and Environmental Biology and Chemistry of the University of Bari, Bari, Italy, where he has been actively involved in research and teaching since 1969. He was conferred a doctorate honoris causa by the Institut National Polytechnique de Toulouse, France, in 2000.