

Contents

Part I Sources and Occurrence of Emerging Contaminants in Rivers

Introduction on Emerging Contaminants in Rivers and Their Environmental Risk	3
Ladislav Mandaric, Mira Celic, Rafael Marcé, and Mira Petrovic	

Contaminants of Emerging Concern in Mediterranean Watersheds.....	27
Maja Kuzmanovic, Antoni Ginebreda, Mira Petrovic, and Damià Barceló	

Emerging Organic Contaminants in Aquifers: Sources, Transport, Fate, and Attenuation	47
X. Sanchez-Vila, E. Vázquez-Suñé, P. Rodríguez-Escales, A. Jurado, A. Folch, A. Carles-Brangarí, J. Carrera, and D. Fernández-García	

Part II Implications for the Biota and the Ecosystem

Effects of Emerging Contaminants on Biodiversity, Community Structure, and Adaptation of River Biota	79
Isabel Muñoz, Julio C. López-Doval, Núria De Castro-Català, Maja Kuzmanovic, Antoni Ginebreda, and Sergi Sabater	

Bioaccumulation of Emerging Contaminants in Aquatic Biota: Patterns of Pharmaceuticals in Mediterranean River Networks.....	121
Sara Rodríguez-Mozaz, Belinda Huerta, and Damià Barceló	

Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River.....	143
V. Acuña, I. Aristi, I. Aymerich, D. Barceló, L. Corominas, M. Petrovic, M. Poch, S. Rodríguez-Mozaz, D. von Schiller, S. Sabater, and A. Elosegi	

Fate and Degradation of Emerging Contaminants in Rivers: Review of Existing Models	159
J. Aldekoa, R. Marcé, and F. Francés	
 Part III Implications for Water Management and Policy	
The Emerging Contaminants in the Context of the EU Water Framework Directive	197
Mario Carere, Stefano Polesello, Robert Kase, and Bernd Manfred Gawlik	
Index	217

Emerging Contaminants in River Ecosystems
Occurrence and Effects Under Multiple Stress
Conditions

Petrovic, M.; Sabater, S.; Elosegi, A.; Barceló, D. (Eds.)
2016, XIV, 220 p. 33 illus., 10 illus. in color., Hardcover
ISBN: 978-3-319-29374-5