

Table of Contents

Editorial

- 155 Broadening the Ecology in Ecological Risk Assessment
Richard J. Wenning

Letter to the Editor

- 156 The Need for Increased Acceptance and Use of Spatially Explicit Wildlife Exposure Models
Bruce K Hope, Theodore Wickwire, and Mark S Johnson

Critical Review

- 158 Spatially Explicit Ecological Exposure Models: A Rationale for and Path Toward Their Increased Acceptance and Use
Theodore Wickwire, Mark S Johnson, Bruce K Hope, and Marc S Greenberg

Special Series

- 169 Traits-Based Ecological Risk Assessment (TERA): Realizing the Potential of Ecoinformatics Approaches in Ecotoxicology
Paul J Van den Brink, Mascha N Rubach, Joseph M Culp, Timothy Pascoe, Stephen J Maund, and Donald J Baird
- 172 Framework for Traits-Based Assessment in Ecotoxicology
Mascha N Rubach, Roman Ashauer, David B Buchwalter, HJ De Lange, Mick Hamer, Thomas G Preuss, Katrien Töpke, and Stephen J Maund
- 187 Incorporating Traits in Aquatic Biomonitoring to Enhance Causal Diagnosis and Prediction
Joseph M Culp, David G Armanini, Michael J Dunbar, Jessica M Orlofske, N LeRoy Poff, Amina I Pollard, Adam G Yates, and Grant C Hose
- 198 Traits-Based Approaches in Bioassessment and Ecological Risk Assessment: Strengths, Weaknesses, Opportunities and Threats
Paul J Van den Brink, Alexa C Alexander, Mélanie Desrosiers, Willem Goedkoop, Peter LM Goethals, Matthias Liess, and Scott D Dyer
- 209 Toward a Knowledge Infrastructure for Traits-Based Ecological Risk Assessment
Donald J Baird, Christopher J O Baker, Robert B Brua, Mehrdad Hajibabaei, Kearon McNicol, Timothy J Pascoe, and Dick de Zwart

Decision Analysis

- 216 Public Perception and Stakeholder Involvement in the Crisis Management of Sediment-Related Disasters and their Mitigation: The Case of the Stože Debris Flow in NW Slovenia
Matjaz Mikoš
- 228 Scenario and Multiple Criteria Decision Analysis for Energy and Environmental Security of Military and Industrial Installations
Christopher W Karvetski, James H Lambert, and Igor Linkov

Health & Ecological Risk

- 237 Biomass or Growth Rate Endpoint for Algae and Aquatic Plants: Relevance for the Aquatic Risk Assessment of Herbicides
Matthias Bergtold and Gerhard Peter Dohmen
- 248 Chemical Activity as an Integrating Concept in Environmental Assessment and Management of Contaminants
Don Mackay, Jon A Arnot, Frank Wania, and Robert E Bailey

Environmental Management

- 256 A Review of Sediment Quantity Issues: Examples from the River Ebro and Adjacent Basins (Northeastern Spain)
Ramon J Batalla and Damià Vericat
- 269 Using Monte Carlo Analysis to Characterize the Uncertainty in Final Acute Values Derived From Aquatic Toxicity Data
Douglas B. McLaughlin and Vaibhav Jain
- 280 Field Sensitivity Distribution of Macroinvertebrates for Phosphorus in Inland Waters
Jaap Struijs, Dick De Zwart, Leo Posthuma, Rob SEW Leuven, and Mark AJ Huijbregts

Brief Communication

- 287 How To Test Nontarget Effects of Veterinary Pharmaceutical Residues in Livestock Dung in the Field
Ralf Jochmann, Wolf U Blanckenhorn, Luc Bussière, Charles E Eirkson, John Jensen, Ute Kryger, Joost Lahr, Jean-Pierre Lumaret, Jörg Römbke, Keith G Wardhaugh, and Kevin D Floate
- 297 Learned Discourses: Timely Scientific Opinions
- 306 Book Reviews
- 310 Errata