

CONTENTS

The water footprint of the EU for different diets D. Vanham (Ispra, Italy), M.M. Mekonnen and A.Y. Hoekstra (Enschede, The Netherlands)	1
Accounting for the capacity of common and rare species to contribute to diversity spatial patterns: Is it a sampling issue or a biological effect? A.D. Mazaris (Thessaloniki, Greece), M.A. Tsianou, A. Sigkounas, P. Dimopoulos (Greece), J.D. Pantis, S.P. Sgardelis (Thessaloniki, Greece) and A.S. Kallimanis (Greece)	9
Ecological effects of cow manure compost on soils contaminated by landfill leachate L. Yang, Z. Chen (Wuhan, PR China), T. Liu (Huangshi, PR China), J. Jiang, B. Li, Y. Cao and Y. Yu (Wuhan, PR China)	14
Global Reporting Initiative's environmental reporting: A study of oil and gas companies A. Alazzani and W.N. Wan-Hussin (Malaysia)	19
Bioindicators in marine waters: Benthic diatoms as a tool to assess water quality from eutrophic to oligotrophic coastal ecosystems C. Desrosiers (Toulouse, France and Martinique, France), J. Leflaive (Toulouse, France), A. Eulin (Martinique, France) and L. Ten-Hage (Toulouse, France)	25
Mark-recapture of the endangered franciscana dolphin (<i>Pontoporia blainvillei</i>) killed in gillnet fisheries to estimate past bycatch from time series of stranded carcasses in southern Brazil J.H.F. Prado, E.R. Secchi and P.G. Kinas (Rio Grande, Brazil)	35
Assessing the environmental impacts of high-altitude agriculture in Taiwan: A Driver-Pressure-State-Impact-Response (DPSIR) framework and spatial emergy synthesis Y.-C. Lin, S.-L. Huang (New Taipei City, Taiwan) and W.W. Budd (Pullman, WA, USA).....	42
Using algal metrics and biomass to evaluate multiple ways of defining concentration-based nutrient criteria in streams and their ecological relevance N.J. Smucker (Narragansett, RI, USA), M. Becker (Hartford, CT, USA), N.E. Detenbeck and A.C. Morrison (Narragansett, RI, USA)	51
Hyporheic invertebrates as bioindicators of ecological health in temporary rivers: A meta-analysis C. Leigh (Nathan, Australia), R. Stubbington (Nottingham, UK), F. Sheldon (Nathan, Australia) and A.J. Boulton (Armidale, Australia).....	62
Diatoms as indicators: The influences of experimental nitrogen enrichment on diatom assemblages in sub-Arctic streams R. Gudmundsdottir, S. Palsson, E.R. Hannesdottir, J.S. Olafsson, G.M. Gislason (Reykjavík, Iceland) and B. Moss (UK).....	74
Epiphytic lichens as indicators of grazing pressure in the Mongolian forest-steppe M. Hauck (Göttingen, Germany) and D. Lkhagvadorj (Ulan Bator, Mongolia).....	82
Sustainability indicator systems within urban governance: Usability analysis of sustainability indicator systems as boundary objects M. Holden (British Columbia, Canada)	89
Changes in riverine benthic diatom community structure along a chloride gradient E.R. Porter-Goff, P.C. Frost and M.A. Xenopoulos (Ontario, Canada)	97
Testing indicators of biodiversity for plantation forests L. Coote, A.C. Dietzsch (Dublin, Ireland), M.W. Wilson, C.T. Graham, L. Fuller (Cork, Ireland), A.T. Walsh (Dublin, Ireland), S. Irwin (Cork, Ireland), D.L. Kelly, F.J.G. Mitchell (Dublin, Ireland), T.C. Kelly and J. O'Halloran (Cork, Ireland)	107

Scale-dependent effects of rural activities on benthic macroinvertebrates and physico-chemical characteristics in headwater streams of the Mara River, Kenya V. Minaya, M.E. McClain (Delft, The Netherlands), O. Moog (Vienna, Austria), F. Omengo (Delft, The Netherlands) and G.A. Singer (Delft, Austria).....	116
Developing and validating novel hyperspectral indices for leaf area index estimation: Effect of canopy vertical heterogeneity P. Li (Urumqi, China and Shizuoka, Japan) and Q. Wang (Shizuoka, Japan and Urumqi, China).....	123
A standardized cotton-strip assay for measuring organic-matter decomposition in streams S.D. Tiegs (Rochester, MI, USA), J.E. Clapcott (Nelson, New Zealand), N.A. Griffiths (Notre Dame, IN, USA) and A.J. Boulton (Armidale, Australia).....	131
A new natural resource balance indicator for terrestrial biomass production systems R.A.F. Alvarenga, J. Dewulf and H. Van Langenhove (Ghent, Belgium).....	140
A fish-based index of estuarine ecological quality incorporating information from both scientific fish survey and experts knowledge A. Tableau, H. Drouineau, C. Delpech, M. Pierre, J. Lobry (Cestas, France), O. Le Pape (Rennes, France), J. Breine (Groenendaal, Belgium and Leuven, Belgium) and M. Lepage (Cestas, France).....	147
The integration of crop rotation and tillage practices in the assessment of ecosystem services provision at the regional scale L. Koschke (Tharandt, Germany), C. Fürst, M. Lorenz (Bonn, Germany), A. Witt, S. Frank and F. Makeschin (Tharandt, Germany).....	157
Environmental and spatial correlates of community composition, richness and status of boreal lake macrophytes J. Alahuhta (Finland), A. Kanninen (Kuopio, Finland and Finland), S. Hellsten (Oulu, Finland), K.-M. Vuori (Finland), M. Kuoppala (Oulu, Finland) and H. Hämäläinen (Finland).....	172
Throughflow centrality is a global indicator of the functional importance of species in ecosystems S.R. Borrett (Wilmington, NC, USA).....	182
Implementing a spatial model of Urban Carrying Capacity Load Number (UCCLN) to monitor the environmental loads of urban ecosystems. Case study: Tehran metropolis N.A. Tehrani and Majid.F. Makhdom (Tehran, Iran).....	197
Influence of some metal concentrations on the activity of antioxidant enzymes and concentrations of vitamin E and SH-groups in the digestive gland and gills of the freshwater bivalve <i>Unio tumidus</i> from the Serbian part of Sava River S. Borković-Mitić, S. Pavlović, B. Perendija, S. Despotović, J. Gavrić, Z. Gačić and Z. Saičić (Belgrade, Serbia).....	212
Assessment of landscape aesthetics—Validation of a landscape metrics-based assessment by visual estimation of the scenic beauty S. Frank (Tharandt, Germany and Bonn, Germany), C. Fürst (Bonn, Germany), L. Koschke, A. Witt and F. Makeschin (Tharandt, Germany).....	222
Can indicator species predict restoration outcomes early in the monitoring process? a case study with peatlands E. González, L. Rochefort, S. Boudreau, S. Hugron and M. Poulin (Québec, Canada).....	232
Decouple indicators on the CO ₂ emission-economic growth linkage: The Jiangsu Province case M. Zhang and W. Wang (Xuzhou, PR China).....	239
Environmental indicators for estimating the potential soil respiration rate in alpine zone A. Moriyama (Kyoto, Japan), S. Yonemura (Tsukuba, Japan), S. Kawashima (Kyoto, Japan), M. Du and Y. Tang (Tsukuba, Japan).....	245
Soil biochemical/microbial indices as ecological indicators of land use change in mangrove forests R. Dinesh and S. Ghoshal Chaudhuri (Andamans, India).....	253
Scale and ecological dependence of ecosystem services evaluation: Spatial extension and economic value of freshwater ecosystems in Italy A. Di Sabatino (L'Aquila, Italy), L. Coscieme (Siena, Italy), P. Vignini and B. Cicolani (L'Aquila, Italy).....	259
How to make river assessments comparable: A demonstration for hydromorphology S.D. Langhans, J. Lienert, N. Schuwirth and P. Reichert (Dübendorf, Switzerland).....	264
Framework for the inter-comparison of ecological footprint of universities L.M. Nunes, A. Catarino, M. Ribau Teixeira (Faro, Portugal) and E.M. Cuesta (Spain).....	276
Assessment of the health status of <i>Donax trunculus</i> from the Gulf of Tunis using integrative biomarker indices S. Tlili (Angers, France and Sousse, Tunisia), L. Minguez, L. Giamberini (Metz, France), A. Geffard (Reims, France), H. Boussetta (Sousse, Tunisia) and C. Mouneyrac (Angers, France).....	285
Investigating the effects of point source and nonpoint source pollution on the water quality of the East River (Dongjiang) in South China Y. Wu (Sioux Falls, SD, USA and Hong Kong, China) and J. Chen (Hong Kong, China).....	294
Salt marsh plants carbon storage in a temperate Atlantic estuary illustrated by a stable isotopic analysis based approach T. Couto (Coimbra, Portugal), B. Duarte, I. Caçador (Lisbon, Portugal), A. Baeta and J.C. Marques (Coimbra, Portugal).....	305