

# CONTENTS

NDVI saturation adjustment: A new approach for improving cropland performance estimates in the Greater Platte River Basin, USA Y. Gu, B.K. Wylie, D.M. Howard, K.P. Phuyal and L. Ji (Sioux Falls, SD, USA) .....	1
Identifying robust bioindicators of light stress in seagrasses: A meta-analysis K. McMahon (Joondalup, Australia), C. Collier (Queensland, Australia) and P.S. Lavery (Joondalup, Australia) .....	7
Fall synchrony between leaf color change and brook trout spawning in the Laurentides Wildlife Reserve (Québec, Canada) as potential environmental integrators M. Pépino, R. Proulx and P. Magnan (Trois-Rivières, Canada) .....	16
Assess ecosystem resilience: Linking response and effect traits to environmental variability M. Sterk, G. Gort (Wageningen, The Netherlands), A. Klimkowska (Nijmegen, The Netherlands), J. van Ruijven (Wageningen, The Netherlands), A.J.A. van Teeffelen (Wageningen, The Netherlands; Helsinki, Finland and Amsterdam, The Netherlands) and G.W.W. Wamelink (Wageningen, The Netherlands) .....	21
Assessment of water quality in groundwater resources of Iran using a modified drinking water quality index (DWQI) M.R. Mohebbi, R. Saeedi, A. Montazeri, K. Azam Vaghefi, S. Labbafi, S. Oktaie, M. Abtahi and A. Mohagheghian (Tehran, Iran) .....	28
Phenology-based, remote sensing of post-burn disturbance windows in rangelands J.B. Sankey (Flagstaff, AZ, USA), C.S.A. Wallace (Tucson, AZ, USA) and S. Ravi (Stanford, CA, USA) .....	35
Sustainability of port activities within the framework of the fisheries sector: Port of Vigo (NW Spain) C. Lopes, L.T. Antelo (Vigo, Spain), A. Franco-Uría (Vigo, Spain and Santiago de Compostela, Spain), C. Botana and A.A. Alonso (Vigo, Spain) .....	45
Effects of flow regime alteration on fluvial habitats and riparian quality in a semiarid Mediterranean basin O. Belmar, D. Bruno (Murcia, Spain), F. Martínez-Capel (Valencia, Spain), J. Barquín (Santander, Spain) and J. Velasco (Murcia, Spain) .....	52
Optimizing the sampling effort to evaluate body condition in ungulates: A case study on red deer J.P.V. Santos (Ciudad Real, Spain and Aveiro, Portugal), I.G. Fernández-de-Mera (Ciudad Real, Spain and Madrid, Spain), P. Acevedo (Barcelona, Spain and Málaga, Spain), M. Boadella, Y. Fierro, J. Vicente and C. Gortázar (Ciudad Real, Spain) .....	65
A fisheries acoustic multi-frequency indicator to inform on large scale spatial patterns of aquatic pelagic ecosystems V.M. Trenkel (Nantes, France) and L. Berger (Plouzané, France) .....	72
Nematode biomass and allometric attributes as indicators of environmental quality in a Mediterranean harbour (Ligurian Sea, Italy) V. Losi, M. Moreno, L. Gaozza, L. Vezzulli, M. Fabiano and G. Albertelli (Genoa, Italy) .....	80
Suitability of presence vs. absence indicator species to characterize stress gradients: Lessons from zooplankton species of boreal lakes M.U.M. Anas, K.A. Scott and B. Wissel (Regina, Canada) .....	90
A self-evaluation method to attribute sound bio-values based on in situ ecotoxicological monitoring M. Le Guédard and J.-J. Bessoule (France) .....	100
Ecological indicators for stream restoration success J. Pander and J. Geist (Freising, Germany) .....	106

Sustainability assessment of sugarcane-ethanol production in Brazil: A case study of a sugarcane mill in São Paulo state C.G. Duarte (São Paulo, Brazil), K. Gaudreau, R.B. Gibson (Waterloo, Canada) and T.F. Malheiros (São Paulo, Brazil) . . . . .	119
Seagrass Quality Index (SQI), a Water Framework Directive compliant tool for the assessment of transitional and coastal intertidal areas J.M. Neto, D.V. Barroso and P. Barriá (Coimbra, Portugal). . . . .	130
Sustainability evaluation of e-waste treatment based on energy analysis and the LCA method: A case study of a trial project in Macau Q. Song, Z. Wang (Macau) and J. Li (Beijing, China). . . . .	138
Responses of foraminiferal assemblages to ENSO climate patterns on bank reefs of northern Bahia, Brazil: A 17-year record F. Kelmo (Salvador, Brazil) and P. Hallock (St. Petersburg, FL, USA) . . . . .	148
Organic matter fraction and pools of phosphorus as indicators of the impact of land use in the Amazonian periphery A. das Chagas Ferreira Aguiar, C.S. Cândido, C.S. Carvalho, P.H.M. Monroe and E.G. de Moura (Maranhão, Brazil) . . . . .	158
Detecting restoration impacts in inter-connected habitats: Spring invertebrate communities in a restored wetland J. Ilmonen (Helsinki, Finland), R. Virtanen (Finland), L. Paasivirta (Salo, Finland) and T. Muotka (Finland) . . . . .	165
Evaluating municipal solid waste management performance in regions with strong seasonal variability P. Mendes, A.C. Santos (Loulé, Portugal), L.M. Nunes and M.R. Teixeira (Faro, Portugal) . . . . .	170
Substratum associations of benthic invertebrates in lowland and mountain streams M. Schröder (Essen, Germany), J. Kiesel (Kiel, Germany), A. Schattmann (Essen, Germany), S.C. Jähnig (Gelnhausen, Germany), A.W. Lorenz, S. Kramm (Essen, Germany), H. Keizer-Vlek (Wageningen, The Netherlands), P. Rolauffs (Essen, Germany), W. Graf, P. Leitner (Vienna, Austria) and D. Hering (Essen, Germany) . . . . .	178
The application of the <i>Lymnaea stagnalis</i> embryo-test in the toxicity bioindication of surfactants in fresh waters R. Mazur (Poland), A. Wagner (Krakow, Poland) and M. Zhou (Poland) . . . . .	190
Sandy beach macrofaunal assemblages as indicators of anthropogenic impacts on coastal dunes F. Bessa, D. Cunha (Coimbra, Portugal), S.C. Gonçalves (Coimbra, Portugal and Peniche, Portugal) and J.C. Marques (Coimbra, Portugal) . . . . .	196
Assessment of coastal protection as an ecosystem service in Europe C. Liquete, G. Zulian (Ispra, Italy), I. Delgado (Lancashire, UK), A. Stips and J. Maes (Ispra, Italy) . . . . .	205
The use of fluctuating asymmetry as a measure of environmentally induced developmental instability: A meta-analysis D.A.E. Beasley, A. Bonisoli-Alquati and T.A. Mousseau (Columbia, SC, USA) . . . . .	218
Corrigendum to "An indicator of pesticide leaching risk to ground water" [Ecological Indicators 23 (2012) 95–108] A.M.L. Lindahl (Colmar, France and Uppsala, Sweden) and C. Bockstaller (Colmar, France) . . . . .	227