

Review Articles

Ecological risk assessment of urban stormwater ponds: Literature review and proposal of a new conceptual approach providing ecological quality goals and the associated bioassessment tools
 G. Tixier (Burlington, Canada), M. Lafont (Lyon, France), L. Grapentine, Q. Rochfort and J. Marsalek (Burlington, Canada) 1497

Integrative freshwater ecology and biodiversity conservation
 J. Geist (Freising, Germany) 1507

Original Articles

Can ants be used as ecological indicators of restoration progress in dynamic environments? A case study in a revegetated riparian zone
 J.R. Gollan (Sydney, Australia and Armidale, Australia), L.L. de Bruyn, N. Reid (Armidale, Australia), D. Smith and L. Wilkie (Sydney, Australia) 1517

Calculation of the corporate carbon footprint of the cement industry by the application of MC3 methodology
 J. Cagiao, B. Gómez (Spain), J.L. Doménech (Asturias, Spain), S.G. Mainar and H.G. Lanza (Madrid, Spain) 1526

A comparative analysis of fine versus coarse taxonomic resolution in benthic chironomid community analyses
 M.-H. Greffard, É. Saulnier-Talbot and I. Gregory-Eaves (Montréal, Canada) 1541

Using hyperspectral vegetation indices as a proxy to monitor soil salinity
 T.-T. Zhang, S.-L. Zeng, Y. Gao, Z.-T. Ouyang, B. Li, C.-M. Fang and B. Zhao (Shanghai, PR China) 1552

Microbial eco-physiological profiles to estimate the biological restoration of a trichloroethylene-contaminated soil
 B. Moreno, R. Nogales (Granada, Spain), C. Macci, G. Masciandaro (Pisa, Italy) and E. Benitez (Granada, Spain) 1563

Development of a fish-based index (FBI) of biotic integrity for French lakes using the hindcasting approach
 L. Launois, J. Veslot, P. Irz and C. Argillier (Aix-en-Provence, France) 1572

Towards rapid bioassessment of Wadeable streams in Brazil: Development of the Guapiaçu-Macau Multimetric Index (GMMI) based on benthic macroinvertebrates
 R.B.S. Oliveira, D.F. Baptista, R. Mugnai, C.M. Castro (Rio de Janeiro, Brazil) and R.M. Hughes (Corvallis, OR, USA and Brazil) 1584

Aerobiology: An ecological indicator for early detection and control of fungal outbreaks in caves
 E. Porca, V. Jurado, P.M. Martin-Sanchez, B. Hermosin (Sevilla, Spain), F. Bastian, C. Alabouvette (Dijon, France) and C. Saiz-Jimenez (Sevilla, Spain) 1594

An integrated sustainable development approach to modeling the eco-environmental effects from urbanization
 Y. Liu (Nanchang, PR China; Shanghai, PR China and Ann Arbor, MI, USA), C. Yao (Nanchang, PR China), G. Wang (Shanghai, PR China) and S. Bao (Ann Arbor, MI, USA) 1599

Use of ecological indicators to assess the quality of Great Lakes coastal wetlands
 M. Cvetkovic and P. Chow-Fraser (Ontario, Canada) 1609

Estimating species tolerance to human perturbation: Expert judgment versus empirical approaches
 P. Segurado, J.M. Santos (Lisboa, Portugal), D. Pont (Antony, France), A.H. Melcher (Vienna, Austria), D.G. Jalon (Madrid, Spain), R.M. Hughes (Corvallis, OR, USA) and M.T. Ferreira (Lisboa, Portugal) 1623

Assessing environmental conditions of the Río Champotón (México) using diverse indices and biomarkers in the fish <i>Astyanax aeneus</i> (Günther, 1860) P. Trujillo-Jiménez (Cuernavaca, Mexico), J.E. Sedeño-Díaz (Mexico, Mexico), J.A. Camargo (Madrid, Spain) and E. López-López (Mexico, Mexico)	1636
Diatom biomonitoring of streams: Reliability of reference sites and the response of metrics to environmental variations across temporal scales N.J. Smucker and M.L. Vis (Athens, OH, USA)	1647
Biotic and abiotic parameters that distinguish types of temporary ponds in a Portuguese Mediterranean ecosystem C. Pinto-Cruz (Évora, Portugal), A.M. Barbosa (Évora, Portugal and London, UK), J.A. Molina (Medrid, Spain) and M.D. Espírito-Santo (Lisboa, Portugal)	1658
Information-based Network Environ Analysis: A system perspective for ecological risk assessment S. Chen (Beijing, China), B.D. Fath (Towson, MD, USA and Laxenburg, Austria) and B. Chen (Beijing, China)	1664
Air quality biomonitoring in agricultural areas nearby to urban and industrial emission sources in Córdoba province, Argentina, employing the bioindicator <i>Tillandsia capillaris</i> J.H. Rodriguez (Córdoba, Argentina), S.B. Weller (Stuttgart, Germany), E.D. Wannaz (Córdoba, Argentina), A. Klumpp (Stuttgart, Germany) and M.L. Pignata (Córdoba, Argentina)	1673
Harnessing the power of the press with three indices of sustainable development S. Morse (Guildford, UK)	1681
Deciduous tree leaves in trace elements biomonitoring: A contribution to methodology M. Tomašević, M. Aničić, L. Jovanović, A. Perić-Grujić and M. Ristić (Belgrade, Serbia)	1689
Case Study	
Abundance of archaeal and bacterial ammonia oxidizers – Possible bioindicator for soil monitoring E. Wessén and S. Hallin (Uppsala, Sweden)	1696
Application and assessment of the Environmental Vulnerability Index in Greece N.A. Skondras, C.A. Karavitis (Athens, Greece), I.I. Gkotsis (Edessa, Greece), P.J.B. Scott, U.L. Kaly (Crete, Greece) and S.G. Alexandris (Athens, Greece)	1699
Applicability of ptilochnology as a conservation tool in waterbird studies C.E. Clarkson (Charlottesville, VA, USA)	1707
Effects of urbanization and industrialization on agricultural land use in Shandong Peninsula of China Q. Lu (Yantai City, China), F. Liang (Macomb, IL, USA), X. Bi, R. Duffy and Z. Zhao (Yantai City, China) . . .	1710