

CONTENTS

(Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International;
Abstracted, indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.;
Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.;
Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

Deforestation as an indicator of environmental degradation: Analysis of five European countries M.A. Zambrano-Monserrate, C. Carvajal-Lara, R. Urgilés-Sanchez and M.A. Ruano (Ecuador)	1	Nomenclature instability in species culturomic assessments: Why synonyms matter R.A. Correia (Portugal, Brazil, United Kingdom), I. Jarić (Czech Republic, Germany), P. Jepson (United Kingdom), A.C.M. Malhado (Brazil), J.A. Alves (Portugal, Iceland) and R.J. Ladle (Brazil, United Kingdom)	74
Relationship of root zone soil moisture with solar-induced chlorophyll fluorescence and vegetation indices in winter wheat: A comparative study based on continuous ground-measurements L. Liu (China), X. Yang (USA), H. Zhou, S. Liu, L. Zhou, X. Li, J. Yang and J. Wu (China)	9	Assessment of wetland health status of Poyang Lake using vegetation-based indices of biotic integrity W. Yang, Q. You, N. Fang, L. Xu, Y. Zhou, N. Wu, C. Ni, Y. Liu, G. Liu, T. Yang (China) and Y. Wang (USA)	79
Driving factors of China's energy productivity and its spatial character: Evidence from 248 cities J. Chen, C. Xu, M. Song (China) and X. Liu (Australia)	18	The use of Risk Incidence and Diversity Indices to evaluate water quality of semi-arid reservoirs E.d.L. Azevêdo, C.R. Medeiros, W.I.A. Gomes, D.J.d.S. Azevêdo, R.R.N. Alves, T.L.P. Dias and J. Molozzi (Brazil)	90
Modification of benthic food web structure by recovering seagrass meadows, as revealed by trophic markers and mixing models E. Jankowska (Poland), M. De Troch, L.N. Michel, G. Lepoint (Belgium) and M. Włodarska-Kowalczyk (Poland)	28	Multiple influences of land transfer in the integration of Beijing-Tianjin-Hebei region in China N. Lu, H. Wei, W. Fan, Z. Xu, X. Wang, K. Xing, X. Dong (China), S. Viglia (Italy) and S. Ulgiati (Italy, China)	101
Defining and measuring urban sustainability in Europe: A Delphi study on identifying its most relevant components J.V. Meijering, H. Tobi (The Netherlands) and K. Kern (Germany, Finland)	38	Differences in land cover – biodiversity relationships complicate the assignment of conservation values in human-used landscapes J. Nopper, J.C. Riemann, K. Brinkmann, M.-O. Rödel and J.U. Ganzhorn (Germany)	112
Testing the response of macroinvertebrate communities and biomonitoring indices under multiple stressors in a lowland regulated river A. Laini, R. Bolpagni, T. Cancellario (Italy), S. Guareschi (Spain), E. Racchetti and P. Viaroli (Italy)	47	The study of relationship in a hierarchical structure of EU sustainable development indicators K. Szopik-Depczyńska, K. Cheba, I. Bąk, M. Stajniak (Poland), A. Simboli and G. Ioppolo (Italy)	120
A spatio-temporal analysis of low carbon development in China's 30 provinces: A perspective on the maximum flux principle H. Du, Z. Chen, G. Mao, R.Y.M. Li and L. Chai (China)	54	Landscape metrics as indicators of avian diversity and community measures F. Morelli, Y. Benedetti and P. Šímová (Czech Republic)	132
Bringing diversity back to agriculture: Smaller fields and non-crop elements enhance biodiversity in intensively managed arable farmlands M. Šálek, V. Hula, M. Kipson, R. Daňková, J. Niedobová and A. Gamero (Czech Republic)	65		

Hierarchical modeling assessment of the influence of watershed stressors on fish and invertebrate species in Gulf of Mexico estuaries J. Miller, P.C. Esselman (United States), I. Alameddine (Lebanon), K. Blackhart and D.R. Obenour (United States)	142	Cellular energy allocation analysis of multiple marine bivalves using near infrared spectroscopy J.K. Bartlett, W.A. Maher and M.B.J. Purss (Australia)	247
Sensibility of <i>Spondias purpurea</i> L. (Anacardiaceae) exposed to fluoride-simulated fog T.B.O.d. Anjos, E. Louback, A.A. Azevedo and L.C.d. Silva (Brazil)	154	Assessing functional evenness with the FEve index: A word of warning L. Gaëlle and G. Jean-Claude (French Polynesia)	257
Patterns of herbivory and leaf morphology in two Mexican hybrid oak complexes: Importance of fluctuating asymmetry as indicator of environmental stress in hybrid plants P. Cuevas-Reyes, A. Canché-Delgado, Y. Maldonado-López (Mexico), G.W. Fernandes (Brazil), K. Oyama and A. González-Rodríguez (Mexico)	164	Responses of species and phylogenetic diversity of fish communities in the Lancang River to hydropower development and exotic invasions C. Zhang, L. Ding, C. Ding, L. Chen, J. Sun and X. Jiang (China)	261
Diversity and zooplankton species associated with certain hydroperiods and fish state in field ponds N. Kuczyńska-Kippen and M. Pronin (Poland)	171	Spatial variability and temporal dynamics of HABs in Northeast China C. Fang, K. Song (China), L. Li (USA), Z. Wen, G. Liu, J. Du, Y. Shang and Y. Zhao (China)	280
Determination of $\delta^{15}\text{N}$ in <i>Anemonia sulcata</i> as a pollution bioindicator E. Lozano-Bilbao, J. Alcázar-Treviño and J.J. Fernández (Spain)	179	Stable isotopes of algae and macroinvertebrates in streams respond to watershed urbanization, inform management goals, and indicate food web relationships N.J. Smucker, A. Kuhn, C.J. Cruz-Quinones, J.R. Serbst and J.L. Lake (USA)	295
Alternative management options for irrigation-induced salinization and waterlogging under different climatic conditions A. Singh (India)	184	Unsupervised classification of ecological communities ranked according to their biodiversity patterns via a functional principal component decomposition of Hill's numbers integral functions F. Mauro (Italy)	305
Snails (Mollusca: Gastropoda) as potential surrogates of overall aquatic invertebrate assemblage in wetlands of Northeastern China Q. Guan, J. Liu (China), D.P. Batzer (USA), X. Lu and H. Wu (China)	193	Ecosystem carbon use efficiency in China: Variation and influence factors Z. Chen, G. Yu and Q. Wang (China)	316
Changes in phytoplankton vertical distribution during an El Niño event A. Conde and M. Prado (Ecuador)	201	Linkages of plant-soil interface habitat and grasshopper occurrence of typical grassland ecosystem H.-T. Miao, Y. Liu, L.-Y. Shan and G.-L. Wu (China)	324
The food resources exploitation by small-sized fish in a riverine macrophyte habitat M. Grzybkowska, M. Dukowska, J. Leszczyńska, J. Lik, E. Szczerkowska-Majchrzak and M. Przybylski (Poland)	206	From fish physiology to ecosystems management: Keys for moving through biological levels of organization in detecting environmental changes and anticipate their consequences A. Pérez-Ruzafa, M. Pérez-Marcos and C. Marcos (Spain)	334
Asynchronous changes in trophic status of a lake and its watershed inferred from sedimentary diatoms of different habitats B. Liu (USA) and S. Cao (China)	215	Estimating animal acoustic diversity in tropical environments using unsupervised multiresolution analysis J.S. Ulloa, T. Aubin, D. Llusia, C. Bouveyron and J. Sueur (France)	346
How good are the ecological assumptions and predictions made in the past? Insights from a dynamic modelling approach applied to changing landscapes M. Santos, S. Silva, R. Bastos, D. Carvalho and J.A. Cabral (Portugal)	226	Relationships between human activity and biodiversity in Europe at the national scale: Spatial density of human activity as a core driver of biodiversity erosion F. Gosselin and J.-M. Callois (France)	356
Exploring the dynamic correlation of landscape composition and habitat fragmentation with surface water quality in the Shenzhen river and deep bay cross-border watershed, China Y. Xie, X. Yu, N.C. Ng, K. Li and L. Fang (PR China)	231	Size spectra and other size-related variables of river fish communities: systematic changes along the altitudinal gradient on pristine Andean streams L. Benejam (Spain), I. Tobes (Spain, Ecuador), S. Brucet and R. Miranda (Spain)	366

Climate change vulnerability in urban slum communities: Investigating household adaptation and decision-making capacity in the Indian Himalaya R. Pandey (India), J.M. Alatalo (Qatar), K. Thapliyal, S. Chauhan (India), K.M. Archie (New Zealand), A.K. Gupta, S.K. Jha and M. Kumar (India)	379	A predictive diatom-based model to assess the ecological status of streams and rivers of Northern Spain I. Pardo, C. Delgado, R. Abraín, C. Gómez-Rodríguez, E. García-Roselló, L. García (Spain) and T.B. Reynoldson (Canada)	519
An assessment of forest biomass carbon storage and ecological compensation based on surface area: A case study of Hubei Province, China Q. He, C. Zeng, P. Xie, Y. Liu and M. Zhang (PR China)	392	Environmental implication indices from elemental characterisations of collocated topsoil and moss samples M. Aničić Urošević, G. Vuković, P. Vasić, T. Jakšić, D. Nikolić, S. Škrivanj and A. Popović (Serbia)	529
Sedimentological and dendrochronological indicators of coastal storm risk in western France P. Pouzet, M. Robin, A. Decaulne, B. Gruchet and M. Maanan (France)	401	High nature value farmland increases taxonomic diversity, functional richness and evolutionary uniqueness of bird communities F. Morelli (Czech Republic)	540
Ecological restoration enhances ecosystem health in the karst regions of southwest China C. Liao, Y. Yue, K. Wang (China), R. Fensholt (Denmark), X. Tong (China, Denmark) and M. Brandt (Denmark)	416	Multipurpose plant utilization in ethnic areas of Guizhou, southwest China S. Mao, Y. Shen and H. Deng (PR China)	547
Spatiotemporal changes and drivers of global land vegetation oxygen production between 2001 and 2010 L. Zhang, B. Zhang (China), W. Li (USA), X. Li, L. Sun, L. Jiang and X. Liu (China)	426	A gravity model and exploratory spatial data analysis of prefecture-scale pollutant and CO ₂ emissions in China J. Chen, C. Xu, K. Li and M. Song (PR China)	554
What drives the vegetation restoration in Yangtze River basin, China: Climate change or anthropogenic factors? S. Qu, L. Wang, A. Lin, H. Zhu and M. Yuan (China)	438	Mapping absences within the BAM concept: Towards a new generation of ecological and environmental indicators M. Bariotakis and S.A. Pirintzos (Greece)	564
Habitat suitability evaluation of a benthic macroinvertebrate community in a shallow lake Y. Yi, J. Sun, Y. Yang, Y. Zhou, C. Tang, X. Wang and Z. Yang (China)	451	Prediction of effective climate change indicators using statistical downscaling approach and impact assessment on pearl millet (<i>Pennisetum glaucum</i> L.) yield through Genetic Algorithm in Punjab, Pakistan A. Ullah (Faisalabad 38040 Pakistan, Pakistan, USA), N. Salehnia (USA, Iran), S. Kolsoumi (Iran), A. Ahmad (Pakistan) and T. Khaliq (Faisalabad 38040 Pakistan)	569
Influencing factors and regional discrepancies of the efficiency of carbon dioxide emissions in Jiangsu, China S. Wang and Y. Ma (China)	460	Towards a comprehensive absolute sustainability assessment method for effective Earth system governance: Defining key environmental indicators using an enhanced-DPSIR framework C. Chandrakumar and S.J. McLaren (New Zealand)	577
Development of indices of biotic integrity for high-gradient wadeable rivers and headwater streams in New Jersey J.S. Vile and B.F. Henning (USA)	469	Inferring landscape change from differences in landscape character between the current and a reference situation B. Martín, E. Ortega, P. Martino and I. Otero (Spain)	584
Revealing the correlations between heavy metals and water quality, with insight into the potential factors and variations through canonical correlation analysis in an upstream tributary H. Wei, H. Yu, G. Zhang, H. Pan, C. Lv and F. Meng (PR China)	485	Restorative urban forests: Exploring the relationships between forest stand structure, perceived restorativeness and benefits gained by visitors to coastal <i>Pinus pinea</i> forests A. Tomao, L. Secondi, G. Carrus, P. Corona, L. Portoghesi and M. Agrimi (Italy)	594
Grazing reduces the capacity of Landscape Function Analysis to predict regional-scale nutrient availability or decomposition, but not total nutrient pools D.J. Eldridge (Australia) and M. Delgado-Baquerizo (USA)	494	Bee diversity in crop fields is influenced by remotely-sensed nesting resources in surrounding permanent grasslands R. Carrié (France, Sweden), M. Lopes, A. Ouin and E. Andrieu (France)	606
A two-step approach to mapping particulate organic carbon (POC) in inland water using OLCI images J. Lin, H. Lyu, S. Miao, Y. Pan, Z. Wu, Y. Li and Q. Wang (China)	502		
Chemical and biological indicators of sewage river input to an urban tropical estuary (Guanabara Bay, Brazil) L. Albuquerque de Assis Costa, D.M. Mano Pessoa and R. da Silva Carreira (Brazil)	513		

- A generic method to assess species exploratory potential under climate change
 F. Massiot-Granier, G. Lassalle (France), P.R. Almeida (Portugal), M. Aprahamian (UK), M. Castonguay (Canada), H. Drouineau (France), E. García-Berthou (Spain), P. Laffaille, A. Lechêne, M. Lepage (France), K. Limburg (United States), J. Lobry, E. Rochard (France), K. Rose (United States), J. Rosebery, T. Rougier (France), J. Waldman, K. Wilson (United States) and P. Lambert (France) 615
- Environmental variables controlling soil organic carbon in top- and sub-soils in karst region of southwestern China
 J. Zhu, W. Wu and H.-B. Liu (China) 624
- Spatial distribution, fractionation, toxicity and risk assessment of surface sediments from the Baiyangdian Lake in northern China
 C. Zhang, B. Shan, Y. Zhao, Z. Song and W. Tang (China) 633
- A multiscale assessment protocol to quantify effects of restoration works on alluvial vegetation communities
 C. Staentzel, J.-N. Beisel, S. Gallet, L. Hardion, A. Barillier and I. Combroux (France) 643
- A pan-European model of landscape potential to support natural pest control services
 C. Rega, A.M. Bartual, G. Bocci, L. Sutter (Italy), M. Albrecht (Switzerland), A.-C. Moonen (Italy), P. Jeanneret (Switzerland), W. van der Werf (The Netherlands), S.C. Pfister (Germany), J.M. Holland (UK) and M.L. Paracchini (Italy) 653