

Contents

J.M. Navarro Navajas, P. Montesinos, E.C. Poyato and J.A. Rodríguez Díaz	Impacts of irrigation network sectoring as an energy saving measure on olive grove production	1
A.J. Luna, O. Chiavone-Filho, A. Machulek Jr., J.E.F. de Moraes and C.A.O. Nascimento	Photo-Fenton oxidation of phenol and organochlorides (2,4-DCP and 2,4-D) in aqueous alkaline medium with high chloride concentration	10
M. Trabucchi, P. Ntshotsho, P. O'Farrell and F.A. Comín	Ecosystem service trends in basin-scale restoration initiatives: A review	18
H.V. Rowley, G.M. Peters, S. Lundie and S.J. Moore	Aggregating sustainability indicators: Beyond the weighted sum	24
H.A. Hasan, S.R.S. Abdullah, N.T. Kofli and S.K. Kamarudin	Isotherm equilibria of Mn ²⁺ biosorption in drinking water treatment by locally isolated <i>Bacillus</i> species and sewage activated sludge	34
G. Masetti and B. Calder	Remote identification of a shipwreck site from MBES backscatter	44
R.G. Flores, S.L.F. Andersen, L.K.K. Maia, H.J. José and R.d.F.P.M. Moreira	Recovery of iron oxides from acid mine drainage and their application as adsorbent or catalyst	53
K.C. Rice, B. Hong and J. Shen	Assessment of salinity intrusion in the James and Chickahominy Rivers as a result of simulated sea-level rise in Chesapeake Bay, East Coast, USA	61
S.M. Troy, T. Nolan, W. Kwapinski, J.J. Leahy, M.G. Healy and P.G. Lawlor	Effect of sawdust addition on composting of separated raw and anaerobically digested pig manure	70
Z. Ma and D.L. Coppock	Perceptions of Utah ranchers toward carbon sequestration: Policy implications for US rangelands	78
B.P. Wilcox, W.E. Fox, L.J. Prcin, J. McAlister, J. Wolfe, D.M. Thomas, R.W. Knight, D.W. Hoffman and F.E. Smeins	Contour ripping is more beneficial than composted manure for restoring degraded rangelands in Central Texas	87
C. Pfeifer, M.P.W. Sonneveld and J.J. Stoorvogel	Farmers' contribution to landscape services in the Netherlands under different rural development scenarios	96
R. Flouty and G. Estephane	Bioaccumulation and biosorption of copper and lead by a unicellular algae <i>Chlamydomonas reinhardtii</i> in single and binary metal systems: A comparative study	106
T. Hadibarata and R.A. Kristanti	Identification of metabolites from benzo[<i>a</i>]pyrene oxidation by ligninolytic enzymes of <i>Polyporus</i> sp. S133	115
K. Song, Z. Wang, L. Li, L. Tedesco, F. Li, C. Jin and J. Du	Wetlands shrinkage, fragmentation and their links to agriculture in the Muleng-Xingkai Plain, China	120
P. Lertwattanaruk, N. Makul and C. Siripattarapavat	Utilization of ground waste seashells in cement mortars for masonry and plastering	133
D. Kalpana, N. Velmurugan, J.H. Shim, B.-T. Oh, K. Senthil and Y.S. Lee	Biodecolorization and biodegradation of reactive Levafix Blue E-RA granulate dye by the white rot fungus <i>Irpex lacteus</i>	142
H. Song, G.-J. Yim, S.-W. Ji, C.M. Neculita and T. Hwang	Pilot-scale passive bioreactors for the treatment of acid mine drainage: Efficiency of mushroom compost vs. mixed substrates for metal removal	150

S. Sanon, T. Hein, W. Douven and P. Winkler	Quantifying ecosystem service trade-offs: The case of an urban floodplain in Vienna, Austria	159
D. Traversi, S. Villa, E. Lorenzi, R. Degan and G. Gilli	Application of a real-time qPCR method to measure the methanogen concentration during anaerobic digestion as an indicator of biogas production capacity	173
K. Wick, C. Heumesser and E. Schmid	Groundwater nitrate contamination: Factors and indicators	178
J.E. Hunink, P. Droogers, S. Kauffman, B.M. Mwaniki and J. Bouma	Quantitative simulation tools to analyze up- and downstream interactions of soil and water conservation measures: Supporting policy making in the Green Water Credits program of Kenya	187
J.T. Alexander, F.I. Hai and T.M. Al-aboud	Chemical coagulation-based processes for trace organic contaminant removal: Current state and future potential	195
M.M.R. Jahangir, P. Johnston, M.I. Khalil, J. Grant, C. Somers and K.G. Richards	Evaluation of headspace equilibration methods for quantifying greenhouse gases in groundwater	208
V. Luyet, R. Schlaepfer, M.B. Parlange and A. Buttler	A framework to implement Stakeholder participation in environmental projects	213
T.N. Maraseni, S. Mushtaq and K. Reardon-Smith	Integrated analysis for a carbon- and water-constrained future: An assessment of drip irrigation in a lettuce production system in eastern Australia	220
C.W.-H. Lo, G.E. Fryxell, B. van Rooij, W. Wang and P. Honying Li	Explaining the enforcement gap in China: Local government support and internal agency obstacles as predictors of enforcement actions in Guangzhou	227
I. López, C. Álvarez, J.L. Gil and J.A. Revilla	Does the bathing water classification depend on sampling strategy? A bootstrap approach for bathing water quality assessment, according to Directive 2006/7/EC requirements	236
S. Rossini Oliva and M.D. Mingorance	Response of drought and fertilization in <i>Erica andevalensis</i> seed banks: Significance for conservation management	243
V. Wilson-Corral, C.W.N. Anderson and M. Rodriguez-Lopez	Gold phytomining. A review of the relevance of this technology to mineral extraction in the 21st century	249
M. Rogers, A. Curtis and N. Mazur	The influence of cognitive processes on rural landholder responses to climate change	258
S. Mogo, V.E. Cachorro and A.M. de Frutos	<i>In situ</i> UV-VIS-NIR absorbing properties of atmospheric aerosol particles: Estimates of the imaginary refractive index and comparison with columnar values	267
Special section on the San Luis Basin Sustainability Metrics Project		
M.T. Heberling and M.E. Hopton	Introduction to the special collection of papers on the San Luis Basin Sustainability Metrics Project: A methodology for evaluating regional sustainability	272
M.E. Hopton and D. White	A simplified ecological footprint at a regional scale	279
M.T. Heberling, J.J. Templeton and S. Wu	Green Net Regional Product for the San Luis Basin, Colorado: An economic measure of regional sustainability	287
Publisher note:		
Tarsha Eason and Heriberto Cabezas	Evaluating the sustainability of a regional system using Fisher information in the San Luis Basin, Colorado	298
Daniel E. Campbell and Ahjond S. Garmestani	An energy systems view of sustainability: Emergy evaluation of the San Luis Basin, Colorado	298