

## Contents

C. Lu, L. Cao, R. Liu, Y. Lei and G. Ding	Effect of common metal ions on the rate of degradation of 4-nitrophenol by a laccase-Cu <sup>2+</sup> synergistic system	1
G. Cundill and R. Rodela	A review of assertions about the processes and outcomes of social learning in natural resource management	7
E. Swain	Stochastic analyses to identify wellfield withdrawal effects on surface-water and groundwater in Miami-Dade County, Florida	15
Y. Chen, J. Li, L. Liu and N. Zhao	Polybrominated diphenyl ethers fate in China: A review with an emphasis on environmental contamination levels, human exposure and regulation	22
T.G. Safford, J.D. Ulrich and L.C. Hamilton	Public perceptions of the response to the <i>Deepwater Horizon</i> oil spill: Personal experiences, information sources, and social context	31
C. von Haaren, D. Kempa, K. Vogel and S. Rüter	Assessing biodiversity on the farm scale as basis for ecosystem service payments	40
A. Luciano, P. Viotti, G. Mancini and V. Torretta	An integrated wastewater treatment system using a BAS reactor with biomass attached to tubular supports	51
A. Robles-Morua, A.S. Mayer, M.T. Auer and E.R. Vivoni	Modeling riverine pathogen fate and transport in Mexican rural communities and associated public health implications	61
C. Fall, E. Millán-Lagunas, K.M. Bâ, I. Gallego-Alarcón, D. García-Pulido, C. Díaz-Delgado and C. Solís-Morelos	COD fractionation and biological treatability of mixed industrial wastewaters	71
C.J. O'Flynn, O. Fenton, P. Wilson and M.G. Healy	Impact of pig slurry amendments on phosphorus, suspended sediment and metal losses in laboratory runoff boxes under simulated rainfall	78
K. Panz and K. Miksch	Phytoremediation of explosives (TNT, RDX, HMX) by wild-type and transgenic plants	85
M. El-Fadel, R. Abdallah and G. Rachid	A modeling approach toward oil spill management along the Eastern Mediterranean	93
L. van der Walt, S.S. Cilliers, K. Kellner, D. Tongway and L. van Rensburg	Landscape functionality of plant communities in the Impala Platinum mining area, Rustenburg	103
L.R. Norton, L.C. Maskell, S.S. Smart, M.J. Dunbar, B.A. Emmett, P.D. Carey, P. Williams, A. Crowe, K. Chandler, W.A. Scott and C.M. Wood	Measuring stock and change in the GB countryside for policy – Key findings and developments from the Countryside Survey 2007 field survey	117
A. Mezenzevova, N.N. Yeboah, S.E. Burns, L.F. Kahn and K.E. Kurtis	Utilization of Savannah Harbor river sediment as the primary raw material in production of fired brick	128
S. Higgins, M. Mahon and J. McDonagh	Interdisciplinary interpretations and applications of the concept of scale in landscape research	137
O.F. Price and R.A. Bradstock	The efficacy of fuel treatment in mitigating property loss during wildfires: Insights from analysis of the severity of the catastrophic fires in 2009 in Victoria, Australia	146
P.P. Kalbar, S. Karmakar and S.R. Asolekar	Selection of an appropriate wastewater treatment technology: A scenario-based multiple-attribute decision-making approach	158
I. Ali, Mohd. Asim and T.A. Khan	Low cost adsorbents for the removal of organic pollutants from wastewater	170

<b>I. Logar and J.C.J.M. van den Bergh</b>	Respondent uncertainty in contingent valuation of preventing beach erosion: An analysis with a polychotomous choice question	184
<b>H.A. Sander and R.G. Haight</b>	Estimating the economic value of cultural ecosystem services in an urbanizing area using hedonic pricing	194
<b>P.A. Stevens, W.J. Batty, P.J. Longhurst and G.H. Drew</b>	A critical review of classification of organisations in relation to the voluntary implementation of environmental management systems	206
<b>A.A. Al-Majed, A.R. Adebayo and M.E. Hossain</b>	A sustainable approach to controlling oil spills	213
<b>J.G. Carter and I. White</b>	Environmental planning and management in an age of uncertainty: The case of the Water Framework Directive	228
<b>C.A. Lohr, L.J. Cox and C.A. Lepczyk</b>	Patterns of hypothetical wildlife management priorities as generated by consensus convergence models with ordinal ranked data	237
<b>G. Ersöz and S. Atalay</b>	Treatment of aniline by catalytic wet air oxidation: Comparative study over CuO/CeO <sub>2</sub> and NiO/Al <sub>2</sub> O <sub>3</sub>	244
<b>N. López-Mosquera and M. Sánchez</b>	Theory of Planned Behavior and the Value-Belief-Norm Theory explaining willingness to pay for a suburban park	251
<b>J. Wei, R. Jia, D. Marinova and D. Zhao</b>	Modeling pollution control and performance in China's provinces	263
<b>A. Hansson, E. Pedersen and S.E.B. Weisner</b>	Landowners' incentives for constructing wetlands in an agricultural area in south Sweden	271
<b>D.J. Sample, T.J. Grizzard, J. Sansalone, A.P. Davis, R.M. Roseen and J. Walker</b>	Assessing performance of manufactured treatment devices for the removal of phosphorus from urban stormwater	279
<b>K. Moon, N. Marshall and C. Cocklin</b>	Personal circumstances and social characteristics as determinants of landholder participation in biodiversity conservation programs	292
<b>O.F. Price, R.A. Bradstock, J.E. Keeley and A.D. Syphard</b>	The impact of antecedent fire area on burned area in southern California coastal ecosystems	301
<b>E. Apostolopoulou, E.G. Drakou and K. Padiaditi</b>	Participation in the management of Greek Natura 2000 sites: Evidence from a cross-level analysis	308
<b>B.C. Cooke, A.R. Jones, I.D. Goodwin and M.J. Bishop</b>	Nourishment practices on Australian sandy beaches: A review	319
<b>A. Rastogi, G.M. Hickey, R. Badola and S.A. Hussain</b>	Saving the superstar: A review of the social factors affecting tiger conservation in India	328
<b>C.N. Cook, R.W.(Bill) Carter, R.A. Fuller and M. Hockings</b>	Managers consider multiple lines of evidence important for biodiversity management decisions	341
<b>D. Wicke, T.A. Cochrane and A. O'Sullivan</b>	Build-up dynamics of heavy metals deposited on impermeable urban surfaces	347
<b>S. Wang, L.X. Jiao, S. Yang, X. Jin and W. Yi</b>	Effects of organic matter and submerged macrophytes on variations of alkaline phosphatase activity and phosphorus fractions in lake sediment	355
<b>A.P. Reimer and L.S. Prokopy</b>	Environmental attitudes and drift reduction behavior among commercial pesticide applicators in a U.S. agricultural landscape	361
<b>A. Wutich, A.M. York, A. Brewis, R. Stotts and C.M. Roberts</b>	Shared cultural norms for justice in water institutions: Results from Fiji, Ecuador, Paraguay, New Zealand, and the U.S.	370
<b>C.-L. Lin, M.-C. Weng and C.-H. Chang</b>	Effect of incinerator bottom-ash composition on the mechanical behavior of backfill material	377
<b>J. Gan, C.T. Smith and J.W.A. Langeveld</b>	Effects of considering greenhouse gas consequences on fertilizer use in loblolly pine plantations	383
<b>M. Gordon, M. Lockwood, F. Vanclay, D. Hanson and J. Schirmer</b>	Divergent stakeholder views of corporate social responsibility in the Australian forest plantation sector	390
<b>K. Chanworrawoot and M. Hunsom</b>	Treatment of wastewater from pulp and paper mill industry by electrochemical methods in membrane reactor	399
<b>C.K. May</b>	Active non-participation among local natural resource-dependent communities: The case of North Carolina fisheries governance	407
<b>I.A. Pérez, M.L. Sánchez, M.Á. García and N. Pardo</b>	Spatial analysis of CO <sub>2</sub> concentration in an unpolluted environment in northern Spain	417
<b>A. Aleboeyh, M.B. Kasiri and H. Aleboeyh</b>	Influence of dyeing auxiliaries on AB74 dye degradation by UV/H <sub>2</sub> O <sub>2</sub> process	426

M. Odabasi and B. Cetin	Determination of octanol-air partition coefficients of organochlorine pesticides (OCPs) as a function of temperature: Application to air-soil exchange	432
C. Lin, G. Thomson, S.-H. Hung and Y.-D. Lin	A GIS-based protocol for the simulation and evaluation of realistic 3-D thinning scenarios in recreational forest management	440
Y. Ren, J. Yan, X. Wei, Y. Wang, Y. Yang, L. Hua, Y. Xiong, X. Niu and X. Song	Effects of rapid urban sprawl on urban forest carbon stocks: Integrating remotely sensed, GIS and forest inventory data	447
A.B. Nielsen, E. Heyman and G. Richnau	Liked, disliked and unseen forest attributes: Relation to modes of viewing and cognitive constructs	456
W. Ouyang, B. Guo, F. Hao, H. Huang, J. Li and Y. Gong	Modeling urban storm rainfall runoff from diverse underlying surfaces and application for control design in Beijing	467
H. Bonakdari	Establishment of relationship between mean and maximum velocities in narrow sewers	474
<b>Special Section on Environmental Risks and Problems, Strategies to reduce them through Biotechnology and Engineering</b>		
D.D. Lopes, S.M.C.P. Silva, F. Fernandes, R.S. Teixeira, A. Celligoi and L.H. Dall'Antônia	Geophysical technique and groundwater monitoring to detect leachate contamination in the surrounding area of a landfill – Londrina (PR – Brazil)	481
I. Jemai, N. Ben Aissa, S. Ben Guirat, M. Ben-Hammouda and T. Gallali	On-farm assessment of tillage impact on the vertical distribution of soil organic carbon and structural soil properties in a semiarid region in Tunisia	488
A. Thameur, B. Lachiheb and A. Ferchichi	Drought effect on growth, gas exchange and yield, in two strains of local barley Ardhauoui, under water deficit conditions in southern Tunisia	495
S. Papa, G. Bartoli, F. Nacca, B. D'Abrosca, E. Cembrola, A. Pellegrino, A. Fiorentino, A. Fuggi and A. Fioretto	Trace metals, peroxidase activity, PAHs contents and ecophysiological changes in <i>Quercus ilex</i> leaves in the urban area of Caserta (Italy)	501
A.C.O. Chagas-Spinelli, M.T. Kato, E.S. de Lima and S. Gavazza	Bioremediation of a tropical clay soil contaminated with diesel oil	510
G. López-López, M.C. Lobo, A. Negre, M. Colombàs, J.M. Rovira, A. Martorell, C. Reolid and I. Sastre-Conde	Impact of fertilisation practices on soil respiration, as measured by the metabolic index of short-term nitrogen input behaviour	517
H.M. Poggi-Varaldo, J.D. Bárcenas-Torres, C.U. Moreno-Medina, J. García-Mena, C. Garibay-Orijel, E. Ríos-Leal and N. Rinderknecht-Seijas	Influence of discontinuing feeding degradable cosubstrate on the performance of a fluidized bed bioreactor treating a mixture of trichlorophenol and phenol	527
C. Ben Ahmed, S. Magdich, B. Ben Rouina, M. Boukhris and F. Ben Abdullah	Saline water irrigation effects on soil salinity distribution and some physiological responses of field grown Chemlali olive	538
M. Gómez-Alvarez, T. Poznyak, E. Ríos-Leal and C. Silva-Sánchez	Anthracene decomposition in soils by conventional ozonation	545
C. Fajardo, A. Mosquera-Corral, J.L. Campos and R. Méndez	Autotrophic denitrification with sulphide in a sequencing batch reactor	552