

## **Contents     Volume 71     2004**

### **Volume 71   No 1   October 2004**

YAHAI LU, AKIRA WATANABE & MAKOTO KIMURA / Contribution of plant photosynthates to dissolved organic carbon in a flooded rice soil	1–15
SONJA BRODOWSKI, WULF AMELUNG, INGO LOBE & CHRIS C. DU PREEZ / Losses and biogeochemical cycling of soil organic nitrogen with prolonged arable cropping in the South African Highveld – evidence from D- and L-amino acids	17–42
SHAUN A. WATMOUGH, THOMAS C. HUTCHINSON & PETER J. DILLON / Lead dynamics in the forest floor and mineral soil in south-central Ontario	43–68
HILDE B.M. TOMASSEN, ALFONS J.P. SMOLDERS, LEON P.M. LAMERS & JAN G.M. ROELOFS / Development of floating rafts after the rewetting of cut-over bogs: the importance of peat quality	69–87
LISA KELLMAN / Nitrate removal in a first-order stream: reconciling laboratory and field measurements	89–105
CARLOS E. OYARZÚN, ROBERTO GODOY, AN DE SCHRIJVER, JEROEN STAELENS & NOËL LUST / Water chemistry and nutrient budgets in an undisturbed evergreen rainforest of southern Chile	107–123
JEN-HOW HUANG & EGBERT MATZNER / Biogeochemistry of trimethyllead and lead in a forested ecosystem in Germany	125–139

### **Volume 71   No 2   November 2004**

VINCENT GAUCI, DAVID FOWLER, STEPHEN J. CHAPMAN & NANCY B. DISE / Sulfate deposition and temperature controls on methane emission and sulfur forms in peat	141–162
J.D.H. SPEARS & K. LAJTHA / The imprint of coarse woody debris on soil chemistry in the western Oregon Cascades	163–175
WEI-XING ZHU, NOAH D. DILLARD & NANCY B. GRIMM / Urban nitrogen biogeochemistry: status and processes in green retention basins	177–196
YURIKO YANO, KATE LAJTHA, PHILLIP SOLLINS & BRUCE A. CALDWELL / Chemical and seasonal controls on the dynamics of dissolved organic matter in a coniferous old-growth stand in the Pacific Northwest, USA	197–223

U. BURKERT, G. GINZEL, H.D. BABENZIEN & R. KOSCHEL / The hydrogeology of a catchment area and an artificially divided dystrophic lake – consequences for the limnology of Lake Fuchskuhle	225–246
SARA J.M. HOLMSTRÖM, ULLA S. LUNDSTRÖM, ROGER D. FINLAY & PATRICK A.W. VAN HEES / Siderophores in forest soil solution	247–258
PHILIPPE VIDON & ALAN R. HILL / Denitrification and patterns of electron donors and acceptors in eight riparian zones with contrasting hydrogeology	259–283

**Volume 71 No 3 December 2004**

BRIAN P. KELLEHER, ANDRE J. SIMPSON, KENNETH O. WILLEFORD, MYRNA J. SIMPSON, RACHEL STOUT, A. RAFFERTY & WILLIAM L. KINGERY / Acid phosphatase interactions with organo-mineral complexes: influence on catalytic activity	285–297
GIACOMO CERTINI, ALBERTO AGNELLI, GIUSEPPE CORTI & ANTONELLA CAPPERUCCI / Composition and mean residence time of molecular weight fractions of organic matter extracted from two soils under different forest species	299–316
J. VAN DIJK, M. STROETENGA, L. BOS, P.M. VAN BODEGOM, H.A. VERHOEF & R. AERTS / Restoring natural seepage conditions on former agricultural grass- lands does not lead to reduction of organic matter decom- position and soil nutrient dynamics	317–337
FENGCHANG WU, YOUGRONG CAI, DOUGLAS EVANS & PETER DILLON / Complexation between Hg(II) and dissolved organic matter in stream waters: an application of fluorescence spectroscopy	339–351
XINGLIANG XU, HUA OUYANG, GUANGMIN CAO, ZHIYONG PEI & CAIPING ZHOU / Nitrogen deposition and carbon sequestration in alpine meadows	353–369
EDWARD J. O'LOUGHLIN & YU-PING CHIN / Quantification and characterization of dissolved organic carbon and iron in sedimentary porewater from Green Bay, WI, USA	371–386
ROBERT C. MUSSELMAN & WILLIAM L. SLAUSON / Water chemistry of high elevation Colorado wilderness lakes	387–414
DANIEL L. WELSCH & GEORGE M. HORNBERGER / Spatial and temporal simulation of soil CO <sub>2</sub> concentrations in a small forested catchment in Virginia	415–436
Instructions for Authors	437–445
Authors Index	447
Volume Contents	449–450