CSIRO Publishing

Australian *Journal* of Soil Research

VOLUME 40, 2002

An international journal for the publication of original research into all aspects of soil science

All enquiries and manuscripts should be directed to:

Australian Journal of Soil Research
CSIRO Publishing
PO Box 1139 (150 Oxford St)
Collingwood, Vic. 3066, Australia

Telephone: +61 3 9662 7628
Fax: +61 3 9662 7611
Email: publishing.sr@csiro.au

CSIRO PUBLISHING

Published by CSIRO Publishing
for CSIRO and the Australian Academy of Science

www.publish.csiro.au/journals/ajsr

10.1071/SR1uth2002

Australian Journal of Soil Research

Index to Volume 40

Abbott LK See Collins M *et al*. 1319
Ahern CR See McElnea AE *et al*. 1115, 1133
Ahmed N, Varadachari C, Ghosh K Soil clay–humus complexes I. Alkali dissolution, TEM and XRD studies. 691. II. Bridging cations and DTA studies. 705
Alvarez JM See Obrador AF *et al*. 137. See Novillo J *et al*. 791
Amin S See Noshadi M *et al*. 643
Anecksamphant C See Moller A *et al*. 161
Armstrong JL, Mackenzie DH Sediment yields and turbidity records from small upland sub-catchments in the Warragamba Dam Catchment, Southern New South Wales. 557
Armstrong RD See Bertrand I *et al*. 1339
Aylmore LAG See Pathan SM *et al*. 1201
Bacchi OOS See Tominaga TT *et al*. 605
Barchia IM See Sarooshi RA *et al*. 761
Barkle GF See Stenger R *et al*. 149
Barrow NJ Influence of pH on a secondary effect of phosphate. 775
Basher LR, Ross CW Soil erosion rates under intensive vegetable production on clay loam, strongly structured soils at Pukekohe, New Zealand. 947
Bee G See Ferdowsian R *et al*. 381
Bell MJ See Connolly RD *et al*. 221
Bell RW See Clarke CJ *et al*. 93
Beltran L See Escudey M *et al*. 781
Ben-Hur M See Wakindiki IIC *et al*. 367
Berners-Price SJ See Mathers NJ *et al*. 655
Bertrand I See Hamon RE *et al*. 1371
Bertrand I, Janik LJ, Holloway RE, Armstrong RD, McLaughlin MJ The rapid assessment of concentrations and solid phase associations of macro- and micronutrients in alkaline soils by mid-infrared diffuse reflectance spectroscopy. 1339
Beverly CR See Yunusa IAM *et al*. 207
Bidwell VJ See Carey PL *et al*. 351
Biggs AJW See Redding MR *et al*. 81
Blair IJ See Campbell DI *et al*. 177
Bosch AD See Salazar M *et al*. 827
Brouwer J, Fitzpatrick RW Interpretation of morphological features in a salt-affected duplex soil toposequence with an altered soil water regime in western Victoria. 903. Restricting layers, flow paths and correlation between duration of soil saturation and soil morphological features along a hillslope with an altered soil water regime in western Victoria. 927
Brown HJ See Cox JW *et al*. 581
Bruand A, Gilkes RJ Subsoil bulk density and organic carbon stock in relation to land use for a Western Australian Sodosol 999
Buhmann C See van der Merwe GME *et al*. 115
Bui EN See Henderson BL *et al*. 1399
Burgess CP See Stenger R *et al*. 149
Burkitt LL, Gourley CJP, Sale PWG Changes in bicarbonate-extractable phosphorus over time when P fertiliser was withheld or reapplied to pasture soils. 1213
Burkitt LL, Moody PW, Gourley CJP, Hannah MC A simple phosphorus buffering index for Australian soils. 497
Bush RT See Ward NJ *et al*. 433, 443, 1057
Caceres T, Ying GG, Kookana RS Sorption of pesticides used in banana production on soils of Ecuador. 1085
Cai G, Chen D, White RE, Fan XH, Pacholski A, Zhu ZL, Ding H Gaseous nitrogen losses from urea applied to maize on a calcareous fluvo-aquic soil in the North China Plain. 737
Cameron KC See Di HJ *et al*. 317

Campbell DI, Laybourne CE, Blair IJ Measuring peat moisture content using the dual-probe heat pulse technique. 177
Carey PL, Bidwell VJ, McLaren RG Chromium (VI) leaching from large undisturbed soil lysimeters following application of a simulated copper-chromium-arsenic (CCA) timber preservative 351
Carlson WT See Elliott AH *et al*. 963
Carlyle JC See Paul KI *et al*. 1011
Carter MR, Skjemstad JO, MacEwan R Comparison of structural stability, carbon fractions and chemistry of krasnozem soils from adjacent forest and grass-pasture areas in south-east Victoria 283
Cassaro FAM See Tominaga TT *et al*. 605
Chen D See Cai G *et al*. 737
Chittleborough DJ See Cox JW *et al*. 581
Clark MW See Lin C *et al*. 805
Clarke CJ, George RJ, Hatton TJ, Bell RW Dryland salinity in south-western Australia: its origins, remedies, and future research directions. 93
Clothier BE See Granel T *et al*. 1331
Collins M, Thies JE, Abbott LK Diversity and symbiotic effectiveness of *Rhizobium leguminosarum* bv. *trifolii* isolates from pasture soils in south-western Australia. 1319
Colmer TD See Pathan SM *et al*. 1201
Condron LM See Davis MR *et al*. 675
Connolly RD, Bell MJ, Huth N, Freebairn DM , Thomas GA Simulating infiltration and the water-balance in cropping systems with APSIM-SWIM. 221
Cooper J See Cotching WE *et al*. 65, 45, 1267
Coram J See Dawes WR *et al*. 1419
Costantini A, Loch RJEffects of site preparation on runoff, erosion, and nutrient losses from Pinus plantations established on the coastal lowlands of south-east Queensland, Australia. 1287
Cotching WE, Cooper J, Sparrow LA, McCorkell BE, Rowley W Effects of agricultural management on tenosols in northern Tasmania. 45. Effects of agricultural management on dermosols in northern Tasmania. 65
Cotching WE, Cooper J, Sparrow LA, McCorkell BE, Rowley W, Hawkins K Effects of agricultural management on Vertosols in Tasmania. 1267
Cotching WE, Hawkins K, Sparrow LA, McCorkell BE, Rowley W Crop yields and soil properties on eroded slopes of red ferrosols in northwest Tasmania. 625
Coventry DR See Xu RK *et al*. 483
Cox JW, Chittleborough DJ, Brown HJ, Pitman A, Varcoe JCR Seasonal changes in hydrochemistry along a toposequence of texture-contrast soils. 581
Cresswell GC See Sarooshi RA *et al.* 761
Dalal RC See Page KL *et al*. 727
Davis MR, Condron LM Impact of grassland afforestation on soil carbon in New Zealand: a review of paired-sites studies. 675
Dawes WR, Gilfedder M, Stauffacher M, Coram J, Hajkowicz S, Walker GR, Young M Assessing the viability of recharge reduction for dryland salinity control: Wanilla, Eyre Peninsula. 1419
Di HJ, Cameron KC Nitrate leaching and pasture production from different nitrogen sources on a shallow stony soil under flood irrigated dairy pasture. 317
Diaz P See Escudey M *et al*. 781
Ding H See Cai G *et al*. 737
Duperouzel D See Redding MR *et al*. 81
Elliott AH, Tian YQ, Rutherford JC, Carlson WT Effect of cattle treading on interrill erosion from hill pasture: modelling concepts and analysis of rainfall simulator data. 963
Escudey M, Diaz P, Forster JE, Pizarro C, Beltran L, Galindo G Prediction of K-Ca-Mg ternary exchange from binary isotherms in volcanic soils using the Rothmund-Kornfeld approach. 781
Eyre B See Hossain S *et al*. 419
Fan XH See Cai G *et al*. 737
Farhoodi A See Xu RK *et al*. 483
Ferdowsian R, Ryder AT, George RJ, Bee G, Smart R Groundwater level reductions under lucerne depend on the landform and groundwater flow systems (local or intermediate). 381
Fernandez MD See Obrador AF *et al*. 137
Fillery IRP See Thompson RB *et al*. 299

Fitzpatrick RW See Brouwer J *et al*. 903, 927
Foley JL, Silburn DM Hydraulic properties of rain impact surface seals on three clay soils-influence of raindrop impact frequency and rainfall intensity during steady state. 1067
Forster JE See Escudey M *et a*l. 781
Freebairn DM See Connolly RD *et al*. 221
Fung L See Granel T *et al*. 1331
Galindo G See Escudey M *et al*. 781
Gardner T See Redding MR *et al.* 81
George RJ See Clarke CJ *et al*. 93. See Ferdowsian R *et al*. 381
Ghosh K See Ahmed N *et al*. 691, 705
Gilfedder M See Dawes WR *et al*. 1407
Gilkes RJ See Bruand A *et al.* 999. See Pal Y *et al*. 1357. See Varajao AFDC *et al*. 465
Glanville SF See Silburn DM *et al*. 1
Gourley CJP See Burkitt LL *et al.* 497, 1213
Granel T, Robinson BH, Mills TM, Clothier BE, Green S R, Fung L Cadmium accumulation by willow clones used for soil conservation, stock fodder, and phytoremediation. 1331
Grayson R See Petheram C *et al.* 397
Green SR See Granel T *et al*. 1331
Grove TS See Mendham DS *et al*. 859
Guevara-Escobar A, Mackay AD, Kemp PD , Hodgson J Soil properties of a widely spaced, planted poplar (*Populus deltoides*)–pasture system in a hill environment. 873
Gurung HP See Kaur R *et al*. 847
Hajkowicz S See Dawes WR *et al*. 1407
Ham G See Nelson PN *et al*. 1249
Hamon RE, Bertrand I, McLaughlin MJ Use and abuse of isotopic exchange data in soil chemistry. 1371
Hamon RE, McLaughlin MJ Interferences in the determination of isotopically exchangeable P in soils and a method to minimise them. 1383
Hannah MC See Burkitt LL *et al*. 497
Hargreaves PA See Silburn DM *et al*. 21
Harris AM See Sarooshi RA *et al*. 761
Hart RD See Varajao AFDC *et al*. 465
Hatton TJ See Clarke CJ *et al*. 93
Hawkins K See Cotching WE *et al*. 625, 1267
Heffernan S See Singh B *et al*. 1159
Henderson BL, Bui EN An improved calibration curve between soil pH measured in water and $CaCl_2$. 1399
Hodgson JSee Guevara-Escobar A *et al*. 873
Holloway RE See Bertrand I *et al*. 1339
Holz GK See Moroni M *et al*. 543
Hossain S, Eyre B, McConchie DM Spatial and temporal variations of suspended sediment responses from the sub-tropical Richmond River catchment, NSW, Australia. 419
Huth N See Connolly RD *et al*. 221
Ismail BS, Kailasam K Measurement and prediction of permethrin persistence in six Malaysian agricultural soils. 817
Jackson WR See Peiris D *et al*. 1171
Janik LJ See Bertrand I *et al*. 1339
Jirasuktaveekul W See Moller A *et al*. 161
Kailasam K See Ismail BS *et al*. 817
Kaiser K See Moller A *et al*. 161, 977
Kanchanakool N See Moller A *et al*. 161
Kaur R, Kumar S, Gurung H P A pedo-transfer function (PTF) for estimating soil bulk density from basic soil data and its comparison with existing PTFs 847
Kemp PD See Guevara-Escobar A *et al*. 873
Khanna PK See Paul KI *et al*. 1011
Kimber SWL, Sizemore DJ, Slavich PG Is there evidence of arsenic movement at cattle tick dip sites? 1103
Kookana RS See Caceres T *et al.* 1085. See Pollock D et al. 455. See Ying GG *et al*. 1095

Kumar S See Kaur R *et al*. 847
Laker MC See van der Merwe GME *et al*. 115
Lancaster G See Lin C *et al*. 805
Lawer AT See Nelson PN *et al*. 1249
Laybourne CE See Campbell DI *et al*. 177
Lilburne LR See Lynn IH *et al*. 243
Lilburne LR, Webb TH Effect of soil variability, within and between soil taxonomic units, on simulated nitrate leaching under arable farming, New Zealand. 1187
Lin C See Ward NJ *et al*. 433, 443
Lin C, Clark MW, McConchie DM, Lancaster G, Ward NJ Effects of Bauxsol TM on the immobilisation of soluble acid and environmentally significant metals in acid sulfate soils. 805
Loch RJ See Costantini A *et al*. 1287
Lopez-Valdivia LM See Novillo J *et al*. 791. See Obrador AF *et al*. 137
Lu H, Yu B Spatial and seasonal distribution of rainfall erosivity in Australia. 887
Luo RS See Mao XA *et al*. 717
Lynn IH, Lilburne LR, McIntosh PD Testing a soil-landscape model for dry greywacke steeplands on three mountain ranges in the South Island, New Zealand. 243
MacEwan R See Carter MR *et al*. 283
Mackay AD See Guevara-Escobar A *et al*. 873
Mackenzie DH See Armstrong JL *et al*. 557
Maglinao A See Moller A *et al*. 161
Maleki N See Noshadi M *et al*. 643
Mao XA, Xu ZH, Luo RS, Mathers NJ, Zhang YH, Saffigna PG Nitrate in soil humic acids revealed by ^{14}N nuclear magnetic resonance spectroscopy. 717
Marschner B See Marx M *et al*. 1231
Marshall M See Peiris D *et al*. 1171
Marx M, Marschner B, Nelson PN Short-term effects of incubated legume and grass materials on soil acidity and C and N mineralisation in a soil of north-east Australia. 1231
Mathers NJ See Mao XA *et al*. 717
Mathers NJ, Xu ZH, Berners-Price SJ, Senake Perera MC, Saffigna PG Hydrofluoric acid pre-treatment for improving ^{13}C CPMAS NMR spectral quality of forest soils in south-east Queensland, Australia. 655
McConchie DM See Hossain S *et al*. 419. See Lin C *et al*. 805
McCorkell BE See Cotching WE *et al*. 45, 65, 625, 1267
McElnea AE, Ahern CR, Menzies NW Improvements to peroxide oxidation methods for analysing sulfur in acid sulfate soils. 1115. The measurement of actual acidity in acid sulfate soils and the determination of sulfidic acidity in suspension after peroxide oxidation. 1133
McIntosh PD See Lynn IH *et al*. 243
McKenzie BM See Vance WH *et al.* 615
McLaren RG See Carey PL *et al.* 351
McLaughlin MJ See Bertrand I *et al*. 1339. See Hamon RE *et al*. 1371, 1383.
Mele PM See Yunusa IAM *et al*. 207
Mendham DS, O'Connell AM, Grove TS Organic matter characteristics under native forest, long-term pasture and recent conversion to eucalyptus plantations in Western Australia: microbial biomass, soil respiration, and permanganate oxidation. 859
Menzies NW See McElnea AE *et al*. 1115, 1133. See Page KL *et al.* 727
Merrington G, Rogers SL, Van Zwieten L The potential impact of long-term copper fungicide usage on soil microbial biomass and microbial activity in an avocado orchard. 749
van der Merwe G M E, Laker M C, Buhmann C Clay mineral associations in melanic soils of South Africa. 115
Middleton C See Noble AD *et al*. 257
Milham PJ See Sarooshi RA *et al*. 761
Mills TM See Granel T *et al*. 1331
Moller A, Kaiser K, Kanchanakool N, Anecksamphant C, Jirasuktaveekul W, Maglinao A, Niamskul C, Zech W Sulphur forms in bulk soils and alkaline soil extracts of tropical mountain ecosystems in Northern Thailand 161

Moller A, Kaiser K, Zech W Lignin, carbohydrate, and amino sugar distribution and transformation in the tropical highland soils of northern Thailand under cabbage cultivation, *Pinus* reforestation, secondary forest, and primary forest 977
Moody PW See Burkitt LL *et al*. 497
Moroni M, Smethurst PJ, Holz GK Nitrogen fluxes in surface soils of young *Eucalyptus nitens* plantations in Tasmania. 543
Nelson PN See Marx M *et al*. 1231. See Noble AD *et al*. 257
Nelson PN, Lawer AT, Ham G Evaluation of methods for field diagnosis of sodicity in soil and irrigation water in the sugarcane growing districts of Queensland, Australia. 1249
Niamskul C See Moller A *et al*. 161
Noble AD, Middleton C, Nelson PN, Rogers LG Risk mapping of soil acidification under *Stylosanthes* in northern Australian rangelands. 257
Noshadi M, Amin S, Maleki N Measuring atrazine degradation and PRZM-2 testing. 643
Novillo J, Obrador AF, Lopez-Valdivia LM, Alvarez JM Mobility and distribution of zinc forms in columns of an acid, a neutral, and a calcareous soil treated with three organic zinc complexes. 791
O'Connell AM See Mendham DS *et al*. 859. See Paul KI *et al.* 1011
O'Connell D, Ryan PJ Prediction of three key hydraulic properties in a soil survey of a small forested catchment 191
Obrador AF See Novillo J *et al*. 791
Obrador AF, Alvarez JM, Fernandez MD, Lopez-Valdivia LM Changes with time of zinc forms in an acid, a neutral and a calcareous soil amended with three organic zinc complexes. 137
Oliveira JCM See Tominaga TT *et al*. 605
Pacholski A See Cai G *et al*. 737
Page KL, Dalal RC, Menzies NW, Strong WM Nitrification in a Vertisol subsoil and its relationship to the accumulation of ammonium-nitrogen at depth. 727
Pal Y, Gilkes RJ, Wong MTF Mineral sources of potassium to plants for seven soils from south-western Australia. 1357
Parfitt RL , Parshotam A, Salt GJ Carbon turnover in contrasting soils under maize and pasture. 127
Parshotam A See Parfitt RL *et al*. 127
Pathan SM, Aylmore LAG, Colmer TD Reduced leaching of nitrate, ammonium, and phosphorus in a sandy soil by fly ash amendment. 1201
Patti AF See Peiris D *et al*. 1171
Paul KI, Polglase PJ, O'Connell AM, Carlyle JC, Smethurst PJ, Khanna PK Soil nitrogen availability predictor (SNAP): a simple model for predicting mineralisation of nitrogen in forest soils. 1011
Peiris D, Patti AF, Jackson WR, Marshall M, Smith CJ The use of Ca-modified, brown-coal-derived humates and fulvates for treatment of soil acidity. 1171
Petheram C, Walker GR, Grayson R, Thierfelder T, Zhang L Towards a framework for predicting impacts of land-use on recharge: 1. A review of recharge studies in Australia. 397
Phillips IR Phosphorus sorption and nitrogen transformation in two soils treated with piggery wastewater. 335. Nutrient leaching losses from undisturbed soil cores following applications of piggery wastewater. 515
Pitman A See Cox JW *et al*. 581
Pizarro C See Escudey M *et al*. 781
Poch RM See Salazar M *et al*. 827
Polglase PJ See Paul KI *et al*. 1011. See Robinson MB *et al*. 1027
Pollock D, Salama RB, Kookana RS A study of atrazine transport through a soil profile on the Gnangara Mound, Western Australia, using LEACHP and Monte Carlo techniques. 455
Rab MA See Yunusa IAM *et al*. 207
Redding MR, Biggs AJW, Gardner T, Duperouzel D An overview of land application of pig effluent-P using soil P chemistry and mass balance calculations. 81
Reddy DD See Singh M *et al*. 533
Reichardt K See Tominaga TT *et al*. 605
Robinson BH See Granel T *et al*. 1331
Robinson MB, Polglase PJ, Weston CJ Loss of mass and nitrogen from biosolids applied to a pine plantation. 1027
Rodda NJ See Ross DJ *et al*. 1303
Rogers LG See Noble AD *et al*. 257

Rogers SL See Merrington G *et al.* 749
Ross CW See Basher LR *et al*. 947
Ross DJ, Tate KR, Scott NA, Wilde RH, Rodda NJ, Townsend JA Afforestation of pastures with *Pinus radiata* influences soil carbon and nitrogen pools and mineralisation and microbial properties. 1303
Rowley W See Cotching WE *et al.* 45, 65, 625, 1267
Rutherford JC See Elliott AH *et al*. 963
Ryan PJ See O'Connell D *et al*. 191
Ryder AT See Ferdowsian R *et al*. 381
Saffigna PG See Mao X A et al. 717. See Mathers NJ *et al*. 655
Salama RB See Pollock D *et al*. 455
Salazar M, Poch RM, Bosch AD Reclamation of steeply sloping coal spoil banks under Mediterranean semi-arid climate. 827
Sale PWG See Burkitt LL *et al*. 1213
Salt GJ See Parfitt RL **et al**. 127
Sarooshi RA, Cresswell GC, Tesoriero L, Milham PJ, Barchia IM, Harris AM Effect of biosolids compost on two NSW coastal soils used to grow vegetables. 761
Schefe CR See Yunusa IAM *et al.* 207
Schultz JE See Xu RK *et al*. 483
Scott NA See Ross DJ *et al*. 1303
Senake Perera MC See Mathers NJ *et al*. 655
Silburn DM See Foley JL *et al*. 1067
Silburn DM, Glanville SF Management practices for control of runoff losses from cotton furrows under storm rainfall. I. Runoff and sediment on a black Vertosol. 1
Silburn DM , Simpson BW, Hargreaves PA Management practices for control of runoff losses from cotton furrows under storm rainfall. II. Transport of pesticides in runoff. 21
Simpson BW See Silburn DM *et al*. 21
Singh B, Heffernan S Layer charge characteristics of smectites from Vertosols (Vertisols) of New South Wales 1159
Singh M, Tripathi AK, Reddy DD Potassium balance and release kinetics of non-exchangeable K in a Typic Haplustert as influenced by cattle manure application under soybean–wheat system. 533
Sizemore DJ See Kimber SWL *et al*. 1103
Skjemstad JO See Carter MR *et al*. 283
Slavich PG See Kimber SWL *et al*. 1103
Smart R See Ferdowsian R *et al*. 381
Smethurst PJ See Moroni M *et al*. 543. See Paul KI *et al.* 1011
Smith CJ See Peiris D *et al.* 1171
Sparrow LA See Cotching WE *et al*. 45, 65, 625, 1267
Stauffacher M See Dawes WR *et al*. 1407
Stenger R, Barkle GF, Burgess CP Mineralisation of organic matter in intact versus sieved/refilled soil cores 149
Strong WM See Page KL *et al.* 727
Sullivan LA See Ward NJ *et al*. 433, 443, 1057
Tate KR See Ross DJ *et al*. 1303
Tesoriero L See Sarooshi RA *et al.* 761
Thierfelder T See Petheram C *et al.* 397
Thies JE See Collins M *et al*. 1319
Thomas GA See Connolly RD *et al*. 221
Thompson RB, Fillery IRP Mineralisation of nitrogen contained in mature subterranean clover, capeweed and annual ryegrass and subsequent nitrogen use by wheat in dryland farming systems in southern Australia. 299
Tian YQ See Elliott AH *et al*. 963
Timm LC See Tominaga TT *et al*. 605
Tisdall JM See Vance WH *et al*. 615
Tominaga TT, Cassaro FAM, Bacchi OOS, Reichardt K, Oliveira JCM, Timm LC Variability of soil water content and bulk density in a sugarcane field. 605
Townsend JA See Ross DJ *et al*. 1303
Tripathi AK See Singh M *et al*. 533

Van Zwieten L See Merrington G *et al*. 749
Vance WH, McKenzie BM, Tisdall JM The stability of soils used for cropping in northern Victoria and southern New South Wales. 615
Varadachari C See Ahmed N *et al*. 691, 705
Varajao AFDC, Gilkes RJ, Hart RD Amorphous aluminosilicate materials in a brazilian hydromorphic lateritic soil. 465
Varcoe JCR See Cox JW *et al*. 581
Wakindiki IIC, Ben-Hur M Indigenous soil and water conservation techniques: effects on runoff, erosion, and crop yields under semi-arid conditions. 367
Walker GR See Petheram C *et al*. 397. See Dawes WR *et al*. 1407
Ward NJ See Lin C *et al*. 805
Ward NJ, Sullivan LA, Bush RT Sulfide oxidation and acidification of acid sulfate soil materials treated with CaCO3 and seawater-neutralised bauxite refinery residue. 1057
Ward NJ, Sullivan LA, Bush RT, Lin C Assessment of peroxide oxidation for acid sulfate soil analysis. 1. Reduced inorganic sulfur. 433. 2. Acidity determination. 443
Webb TH See Lilburne LR *et al*. 1187
Weston CJ See Robinson MB *et al*. 1027
Whatmuff MS Applying biosolids to acid soils in NSW: Are guideline soil metal limits from other countries appropriate? 1041
White RE See Cai G *et al*. 737
Wilde RH See Ross DJ *et al*. 1303
Wong MTF See Pal Y *et al*. 1357
Wright SJ See Yavitt JB *et al*. 269
Xu RK, Coventry DR, Farhoodi A, Schultz JE Soil acidification as influenced by crop rotations, stubble management, and application of nitrogenous fertiliser, Tarlee, South Australia. 483
Xu ZH See Mathers N J et al. 655. See Mao XA *et al*. 717
Yavitt JB, Wright SJ Charge characteristics of soil in a lowland tropical moist forest in Panama in response to dry-season irrigation. 269
Yin B See Zhuang SY *et al*. 1243
Ying GG See Caceres T *et al*. 1085
Ying GG, Kookana RS Laboratory and field studies on the degradation of fipronil in a soil. 1095
Yu B See Lu H *et al*. 887
Young M See Dawes WR *et al*. 1407
Yunusa IAM, Mele PM , Rab MA, Schefe CR, Beverly CR Priming of soil structural and hydrological properties by native woody species, annual crops and a permanent pasture. 207
Zech W See Moller A *et al*. 161, 977
Zhang L See Petheram C *et al*. 397
Zhang YH See Mao XA *et al*. 717
Zhu ZL See Zhuang SY *et al*. 1243
Zhu ZL See Cai G *et al*. 737
Zhuang SY, Yin B, Zhu ZL Simulating the effectiveness of surface film on water evaporation and ammonia volatilization. 1243