CSIRO Publishing

Functional Plant Biology

Continuing *Australian Journal of Plant Physiology*

VOLUME 29, 2002

All enquiries and manuscripts should be directed to:

Functional Plant Biology
CSIRO Publishing
PO Box 1139 (150 Oxford St)
Collingwood, Vic. 3066, Australia

Telephone: +61 3 9662 7625
Fax: +61 3 9662 7611
Email: publishing.fpb@csiro.au

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

www.publish.csiro.au/journals/fpb

10.1071/FPauth2002

Functional Plant Biology

Continuing *Australian Journal of Plant Physiology*

Index to Volume 29 (2002)

Abadía A
See Larbi A *et al.* 1453
See Llorens L *et al.* 81
See Medrano H *et al.* 1197
Abadía J
See Larbi A *et al.* 1453
Adams JE
See Colombo SL *et al.* 231
Alegre L
See Nogués S and Alegre L 621
Anderson JM
See Matsubara S *et al.* 1157
Andrew I
See Bannister P *et al.* 1309
Andrews TJ
See Hanson D *et al.* 407
Aranda X
See Llorens L *et al.* 81
Araus JL
See Tambussi EA *et al.* 35
Arndt SK
See Wanek W *et al.* 725, 733
Arndt SK, Wanek W, Hoch G, Richter A, Popp M
Flexibility of nitrogen metabolism in the tropical C_3–crassulacean acid metabolism tree species, *Clusia minor*. 741
Auge RM
See Bano A *et al.* 965
Auguy F
See Smouni A *et al.* 649
Axelsson L
See Beer S *et al.* 349

Badger MR
See Hanson D *et al.* 407
See Holtzapffel RC *et al.* 827
See Leggat W *et al.* 309
See Price GD and Badger MR 117
See Price GD *et al.* 131
Badger MR, Hanson D, Price GD
Evolution and diversity of CO_2 concentrating mechanisms in cyanobacteria. 161
Baillie B
See Leggat W *et al.* 309
Baldani JI, Reis VM, Baldani VLD, Döbereiner J
A brief story of nitrogen fixation in sugarcane — reasons for success in Brazil. 417
Baldani VLD
See Baldani JI *et al.* 417
Ball MC
See Matsubara S *et al.* 1157
Ball MC, Wolfe J, Canny M, Hofmann M, Nicotra AB, Hughes D
Space and time dependence of temperature and freezing in evergreen leaves. 1259
Bannister P
See Strong GL and Bannister P 89
Bannister P, Strong GL, Andrew I
Differential accumulation of nutrient elements in some New Zealand mistletoes and their hosts. 1309
Bano A, Harper JE
Plant growth regulators and phloem exudates modulate root nodulation of soybean. 1299
Bano A, Harper JE, Auge RM, Neuman DS
Changes in phytohormone levels following inoculation of two soybean lines differing in nodulation. 965
Banowetz GM
See Lopez CG *et al.* 1417
Barkla BJ, Vera-Estrella R, Camacho-Emiterio J, Pantoja O
Na^+/H^+ exchange in the halophyte *Mesembryanthemum crystallinum* is associated with cellular sites of Na^+ storage. 1017
Bassères A
See Kanoun M *et al.* 1357
BassiriRad H
See Lane DR *et al.* 1227
Batianoff GN
See Bidwell SD *et al.* 899
Baylis JA
See Heckathorn SA *et al.* 933
Beardall J
See Raven JA *et al.* 355
Beardall J, Giordano M
Ecological implications of microalgal and cyanobacterial CO_2 concentrating mechanisms, and their regulation. 335
Becerril JM
See García-Plazaola JI *et al.* 1075
Bednarek P
See Stobiecki M *et al.* 853
Beer S, Bjork M, Hellblom F, Axelsson L
Inorganic carbon utilization in marine angiosperms (seagrasses). 349
Bergantino E, Brunetta A, Segalla A, Szabò I, Carbonera D, Bordignon E, Rigoni F, Giacometti GM
Structural and functional role of the PsbH protein in resistance to light stress in *Synechocystis* PCC 6803. 1181
Bernasconi S
See Burlini N *et al.* 527
Berry L, Taylor AR, Lucken U, Ryan KP, Brownlee C
Calcification and inorganic carbon acquisition in coccolithophores. 289
Bertolo AL
See González ER *et al.* 97
Beyschlag W
See Werner C *et al.* 999
Bhatti S
See Colman B *et al.* 261
Bianchi MW, Damerval C, Vartanian N
Identification of proteins regulated by cross-talk between drought and hormone pathways in *Arabidopsis* wild-type and auxin-insensitive mutants, *axr1* and *axr2*. 55

Bidwell SD, Woodrow IE, Batianoff GN, Sommer-Knudsen J
Hyperaccumulation of manganese in the rainforest tree *Austromyrtus bidwillii* (Myrtaceae) from Queensland, Australia. 899
Biolley J-P
See Kanoun M *et al.* 1357
Biolley J-P, Kanoun M, Goulas P
The response of vacuolar phenolic content of common bean (*Phaseolus vulgaris* cv. Bergamo) to a chronic ozone exposure: questions and hypotheses. 1
Bjork M
See Beer S *et al.* 349
Blumenthal C
See Wardlaw IF *et al.* 25
Bogusz D
See Smouni A *et al.* 649
Bordignon E
See Bergantino E *et al.* 1181
Borland AM
See Griffiths H *et al.* 689
See Haslam RP *et al.* 749
See Taybi T *et al.* 669
Borland AM, Dodd AN
Carbohydrate partitioning in crassulacean acid metabolism plants: reconciling potential conflicts of interest. 707
Bota J
See Flexas J *et al.* 461
See Medrano H *et al.* 1197
Botto JF
See Zavala JA and Botto JF 797
Bowes G, Rao SK, Estavillo GM, Reiskind JB
C_4 mechanisms in aquatic angiosperms: comparisons with terrestrial C_4 systems. 379
Bradburne CE
See Cannon GC *et al.* 175
Brasileiro ACM
See Sartoretto LM *et al.* 917
Bressan RA
See Maggio A *et al.* 845
Broetto F, Lüttge U, Ratajczak R
Influence of light intensity and salt-treatment on mode of photosynthesis and enzymes of the antioxidative response system of *Mesembryanthemum crystallinum*. 13
Brownlee C
See Berry L *et al.* 289
Brunetta A
See Bergantino E *et al.* 1181
Bungard RA, Zipperlen SA, Press MC, Scholes JD
The influence of nutrients on growth and photosynthesis of seedlings of two rainforest dipterocarp species. 505
Burlini N, Bernasconi S, Manzocchi LA
Effects of elicitors and Ca^{2+} deprivation on the levels of sterols and 1α,25-dihydroxy vitamin D_3 in cell cultures of *Solanum malacoxylon*. 527
Burrell MM
See Vardy KA *et al.* 975
Buśko M
See Stobiecki M *et al.* 853
Bussières P
Water import in the young tomato fruit limited by pedicel resistance and calyx transpiration. 631

Camacho-Emiterio J
See Barkla BJ *et al.* 1017
Campbell BD
See Laing WA *et al.* 1089
Cannon GC, Heinhorst S, Bradburne CE, Shively JM
Carboxysome genomics: a status report. 175
Canny M
See Ball MC *et al.* 1259
Carbonera D
See Bergantino E *et al.* 1181
Carneiro RT
See González ER *et al.* 97
Casadesus J
See Tambussi EA *et al.* 35
Cassar N
See Laws EA *et al.* 323
Castilla N
See Moreno DA *et al.* 585
Ceccarelli N, Mondin A, Lorenzi R, Picciarelli P, Lo Schiavo F
The metabolic basis for 2,4-D resistance in two variant cell lines of carrot. 575
Chaloub RM
See Fernandes J *et al.* 757
Charpentier J-P
See Faivre-Rampant O *et al.* 63
Chaves MM
See Maroco JP *et al.* 451
Chen G, Lips SH, Sagi M
Biomass production, transpiration rate and endogenous abscisic acid levels in grafts of *flacca* and wild-type tomato (*Lycopersicon esculentum*). 1329
Chow WS
See Lee H-Y *et al.* 607
Christopher JT
See McRae SR *et al.* 717
Cid LPB
See Sartoretto LM *et al.* 917
Colman B
See Huertas IE *et al.* 271
Colman B, Huertas IE, Bhatti S, Dason JS
The diversity of inorganic carbon acquisition mechanisms in eukaryotic microalgae. 261
Colmer TD
See Rubinigg M *et al.* 1475
Colombo SL, Pollock SV, Eger KA, Godfrey AC, Adams JE, Mason CB, Moroney JV
Use of the bleomycin resistance gene to generate tagged insertional mutants of *Chlamydomonas reinhardtii* that require elevated CO_2 for optimal growth. 231
Condon AG (Tony)
See Rivelli AR *et al.* 1065
Conroy JP
See Ghannoum O *et al.* 1337
See Seneweera SP *et al.* 945
See Siebke K *et al.* 1377
Correia O
See Werner C *et al.* 999
Cot SS-W
See So AK-C *et al.* 183
Coupe SA, Sinclair BK, Somerfield SD, Hurst PL
Controlled atmospheres and sugar can delay malate synthase gene expression during asparagus senescence. 1045
Cox EH
See Morel FMM *et al.* 301
Cramer GR
Response of abscisic acid mutants of *Arabidopsis* to salinity. 561

Cramer GR, Quarrie SA
Abscisic acid is correlated with the leaf growth inhibition of four genotypes of maize differing in their response to salinity. 111
Corrigendum 535
Criddle RS
See Marcar NE *et al.* 925
Cundiff L
See Heckathorn SA *et al.* 933
Cushman JC
See Taybi T *et al.* 669

Damerval C
See Bianchi MW *et al.* 55
Dason JS
See Colman B *et al.* 261
Day DA
See Holtzapffel RC *et al.* 827
de Andrade A
See González ER *et al.* 97
de Groot CC, Marcelis LFM, van den Boogaard R, Lambers H
Interactive effects of nitrogen and irradiance on growth and partitioning of dry mass and nitrogen in young tomato plants. 1319
De Simone O, Haase K, Müller E, Junk WJ, Gonsior G, Schmidt W
Impact of root morphology on metabolism and oxygen distribution in roots and rhizosphere from two Central Amazon floodplain tree species. 1025
Defávari VAP
See González ER *et al.* 97
Dennis ES
See Upadhyaya NM *et al.* 547
Djordjevic MA
See Roddam LF *et al.* 473
Dobbelaere S
See Zhu G-Y *et al.* 1279
Döbereiner J
See Baldani JI *et al.* 417
Dodd AN
See Borland AM and Dodd AN 707
Dommes J
See Faivre-Rampant O *et al.* 63
Duggan BL, Richards RA, Tsuyuzaki H
Environmental effects on stunting and the expression of a tiller inhibition (*tin*) gene in wheat. 45
Duhoux E
See Smouni A *et al.* 649
Dunton KH
See Raven JA *et al.* 355

Eamens A
See Upadhyaya NM *et al.* 547
Eason JR, Ryan DJ, Pinkney TT, O'Donoghue EM
Programmed cell death during flower senescence: isolation and characterization of cysteine proteinases from *Sandersonia aurantiaca*. 1055
Eastwood RF
See Gatford KT *et al.* 881
Edwards G
See Guralnick LJ *et al.* 763
Edwards GE
See Pinto ME *et al.* 1189
Eger KA
See Colombo SL *et al.* 231
Ehleringer JR
See Helliker BR and Ehleringer JR 435
Eliopoulos E
See Voloudakis AE *et al.* 1237
Elzenga JTM
See Rubinigg M *et al.* 1475
Emes MJ
See Vardy KA *et al.* 975
Equiza MA, Tognetti JA
Morphological plasticity of spring and winter wheats in response to changing temperatures. 1427
Erickson JE
See McDonald EP *et al.* 1115
Errasti E
See García-Plazaola JI *et al.* 1075
Escalona JM
See Flexas J *et al.* 461
See Medrano H *et al.* 1197
Espie GS
See Huertas IE *et al.* 271
See So AK-C *et al.* 183
Estavillo GM
See Bowes G *et al.* 379

Faivre-Rampant O, Charpentier J-P, Kevers C, Dommes J, Van Onckelen H, Jay-Allemand C, Gaspar T
Cuttings of the non-rooting *rac* tobacco mutant overaccumulate phenolic compounds. 63
Feil R
See Walter A *et al.* 1247
Fernandes J, Chaloub RM, Reinert F
Influence of nitrogen supply on the photoprotective response of *Neoregelia cruenta* under high and low light intensity. 757
Fernández E
See Thyssen C *et al.* 251
Fernández MD, Tezara W, Rengifo E, Herrera A
Lack of downregulation of photosynthesis in a tropical root crop, cassava, grown under an elevated CO_2 concentration. 805
Finnegan PM
See Holtzapffel RC *et al.* 827
Fleck I
See Llorens L *et al.* 81
Flexas J
See Medrano H *et al.* 1197
Flexas J, Medrano H
Energy dissipation in C_3 plants under drought. 1209
Flexas J, Bota J, Escalona JM, Sampol B, Medrano H
Effects of drought on photosynthesis in grapevines under field conditions: an evaluation of stomatal and mesophyll limitations. 461
Flores F
See Martinez-Madrid MC *et al.* 865
Forlani G
Differential expression of 5-*enol*-pyruvyl-shikimate-3-phosphate synthase isoforms in elicitor-treated, cultured maize cells. 1483
Franceschi VR
See Guralnick LJ *et al.* 763
Franche C
See Smouni A *et al.* 649
Fredriksen S
See Raven JA *et al.* 355
Fu D-Z
See Ma Q-H *et al.* 1107

Fukuzawa H
See Miura K *et al.* 211
Furbank RT
See Scofield GN *et al.* 815

Galván A
See Thyssen C *et al.* 251
García PC
See Rivero RM *et al.* 643
García-Plazaola JI, Hernández A, Errasti E, Becerril JM
Occurrence and operation of the lutein epoxide cycle in *Quercus* species. 1075
Gaspar T
See Faivre-Rampant O *et al.* 63
Gatford KT, Eastwood RF, Halloran GM
Germination inhibitors in bracts surrounding the grain of *Triticum tauschii*. 881
Gaudron JA
See Scofield GN *et al.* 815
Ghannoum O
See Seneweera SP *et al.* 945
See Siebke K *et al.* 1377
Ghannoum O, von Caemmerer S, Conroy JP
The effect of drought on plant water use efficiency of nine NAD–ME and nine NADP–ME Australian C_4 grasses. 1337
Giacometti GM
See Bergantino E *et al.* 1181
Gibson J
Gilmore AM
Advances in understanding acclimation to light stress and light-energy dissipation mechanisms in photosynthetic organisms: an overview of the Light Stress and Photosynthesis meeting (LS2001) and dedicated Special Section papers. 1125
See Jenkins CLD *et al.* 1287
See Matsubara S *et al.* 1157
See Peng C-L and Gilmore AM 1171
Giordano M
See Beardall J and Giordano M 335
Girnus J
See Griffiths H *et al.* 689
Gleadow RM
See Woodrow IE *et al.* 103
Godfrey AC
See Colombo SL *et al.* 231
Gonsior G
See De Simone O *et al.* 1025
González ER, de Andrade A, Bertolo AL, Lacerda GC, Carneiro RT, Defávari VAP, Labate MTV, Labate CA
Production of transgenic *Eucalyptus grandis* × *E. urophylla* using the sonication-assisted *Agrobacterium* transformation (SAAT) system. 97
Goodger JQD, Woodrow IE
Cyanogenic polymorphism as an indicator of genetic diversity in the rare species *Eucalyptus yarraensis* (Myrtaceae). 1445
Gorgocena Y
See Larbi A *et al.* 1453
Goulas P
See Biolley J-P *et al.* 1
See Kanoun M *et al.* 1357
Gould KS
See Neill SO *et al.* 1437

Govindjee, Seufferheld MJ
Non-photochemical quenching of chlorophyll *a* fluorescence: early history and characterization of two xanthophyll-cycle mutants of *Chlamydomonas reinhardtii*. 1141
Govindjee, Spilotro P
An *Arabidopsis thaliana* mutant, altered in the γ-subunit of ATP synthase, has a different pattern of intensity-dependent changes in non-photochemical quenching and kinetics of the *P*-to-*S* fluorescence decay. 425
Greer DH
See Laing WA *et al.* 1089
Gresshoff PM
See Jiang Q and Gresshoff PM 1371
Griffiths H
See Haslam RP *et al.* 749
Griffiths H, Helliker B, Roberts A, Haslam RP, Girnus J, Robe WE, Borland AM, Maxwell K
Regulation of Rubisco activity in crassulacean acid metabolism plants: better late than never. 689
Gubler F
See Matthews PR *et al.* 1037
Guedira M, Paulsen GM
Accumulation of starch in wheat grain under different shoot/root temperatures during maturation. 495
Guermache F
See Smouni A *et al.* 649
Guo J
See Marcar NE *et al.* 925
Guo J, Jermyn WA, Turnbull MH
Carbon partitioning and sucrose metabolism in two field-grown asparagus (*Asparagus officinalis*) cultivars with contrasting yield. 517
Guralnick LJ, Edwards G, Ku MSB, Hockema B, Franceschi VR
Photosynthetic and anatomical characteristics in the C_4–crassulacean acid metabolism-cycling plant, *Portulaca grandiflora*. 763
Gussakovsky EE, Salakhutdinov BA, Shahak Y
Chiral macroaggregates of LHCII detected by circularly polarized luminescence in intact pea leaves are sensitive to drought stress. 955

Haase K
See De Simone O *et al.* 1025
Hagino N
See Ohkawa H *et al.* 195
Halloran GM
See Gatford KT *et al.* 881
Halmschlager A, Tandori J, Trotta M, Rinyu L, Pfeiffer I, Nagy L
A mathematical model for quinone-herbicide competition in the reaction centres of *Rhodobacter sphaeroides*. 443
Hamilton III EW
See Heckathorn SA *et al.* 933
Handley LL
See Raven JA *et al.* 355
Hanson D
See Badger MR *et al.* 161
Hanson D, Andrews TJ, Badger MR
Variability of the pyrenoid-based CO_2 concentrating mechanism in hornworts (Anthocerotophyta). 407
Hara T
See Matsuda Y *et al.* 279
Harada H
See Matsuda Y *et al.* 279

Harper JE
See Bano A and Harper JE 1299
See Bano A *et al.* 965
Hartung W
See Lovisolo C *et al.* 1349
Hartwell J, Nimmo GA, Wilkins MB, Jenkins GI, Nimmo HG
Probing the circadian control of phospho*enol*pyruvate carboxylase kinase expression in *Kalanchoë fedtschenkoi*. 663
Hasegawa PM
See Maggio A *et al.* 845
Haslam RP
See Griffiths H *et al.* 689
Haslam RP, Borland AM, Griffiths H
Short-term plasticity of crassulacean acid metabolism expression in the epiphytic bromeliad, *Tillandsia usneoides*. 749
Heckathorn SA, Ryan SL, Baylis JA, Wang D, Hamilton III EW, Cundiff L, Luthe DS
In vivo evidence from an *Agrostis stolonifera* selection genotype that chloroplast small heat-shock proteins can protect photosystem II during heat stress. 933
Heinhorst S
See Cannon GC *et al.* 175
Hellblom F
See Beer S *et al.* 349
Helliker B
See Griffiths H *et al.* 689
Helliker BR, Ehleringer JR
Differential ^{18}O enrichment of leaf cellulose in C_3 *versus* C_4 grasses. 435
Hellingwerf KJ
See Matthijs HCP *et al.* 201
Helliwell CA, Wesley SV, Wielopolska AJ, Waterhouse PM
High-throughput vectors for efficient gene silencing in plants. 1217
Hernández A
See García-Plazaola JI *et al.* 1075
Herrera A
See Fernández MD *et al.* 805
Higgins TJ
See Jenkins CLD *et al.* 1287
Hikosaka K
See Kato MC *et al.* 787
Hiraoka Y
See Matsuda Y *et al.* 279
Hirose Tadaki
See Kato MC *et al.* 787
Hirose Tatsuro
See Scofield GN *et al.* 815
Hoch G
See Arndt SK *et al.* 741
Hockema B
See Guralnick LJ *et al.* 763
Hockings PD
See Joyce DC *et al.* 873
Hofmann M
See Ball MC *et al.* 1259
Holtum JAM
Crassulacean acid metabolism: plasticity in expression, complexity of control. 657
See McRae SR *et al.* 717
Holtzapffel RC, Finnegan PM, Millar AH, Badger MR, Day DA
Mitochondrial protein expression in tomato fruit during on-vine ripening and cold storage. 827
Hong Y-N
See Lee H-Y *et al.* 607
Hou ZD
See Liao JX *et al.* 891
Huber W
See Wanek W *et al.* 725, 733
Huertas IE
See Colman B *et al.* 261
Huertas IE, Colman B, Espie GS
Inorganic carbon acquisition and its energization in eustigmatophyte algae. 271
Hughes D
See Ball MC *et al.* 1259
Huisman J
See Matthijs HCP *et al.* 201
Hurst PL
See Coupe SA *et al.* 1045

Inada S, Sonobe S, Shimmen T
Regulation of directional expansion by the cortical microtubule array in roots of *Lemna minor*. 1273
Ishimaru K
See Seneweera SP *et al.* 945

Jacobsen JV
See Matthews PR *et al.* 1037
Jacques NA
See Jenkins CLD *et al.* 1287
James RA
See Rivelli AR *et al.* 1065
James RA, Rivelli AR, Munns R, von Caemmerer S
Factors affecting CO_2 assimilation, leaf injury and growth in salt-stressed durum wheat. 1393
Jay-Allemand C
See Faivre-Rampant O *et al.* 63
Jeanjean R
See Matthijs HCP *et al.* 201
Jenkins CLD, Snow AJ, Simpson RJ, Higgins TJ, Jacques NA, Pritchard J, Gibson J, Larkin PJ
Fructan formation in transgenic white clover expressing a fructosyltransferase from *Streptococcus salivarius*. 1287
Jenkins GI
See Hartwell J *et al.* 663
Jermyn WA
See Guo J *et al.* 517
Jiang Q, Gresshoff PM
Shoot control of hypernodulation and aberrant root formation in the *har1-1* mutant of *Lotus japonicus*. 1371
Johnston AM
See Raven JA *et al.* 355
Joly RJ
See Maggio A *et al.* 845
Jones MB
See Tognetti R *et al.* 1097
Jordan BR
Molecular response of plant cells to UV-B stress. 909
Jorgensen RA, Que Q, Napoli CA
Maternally-controlled ovule abortion results from cosuppression of dihydroflavonol-4-reductase or flavonoid-3′,5′-hydroxylase genes in *Petunia hybrida*. 1501
Joset F
See Matthijs HCP *et al.* 201

Joyce DC, Hockings PD, Mazucco RA, Shorter AJ
^{1}H-Nuclear magnetic reasonance imaging of ripening 'Kensington Pride' mango fruit. 873
Junk WJ
See De Simone O *et al.* 1025

Kanoun M
See Biolley J-P *et al.* 1
Kanoun M, Goulas P, Bassères A, Biolley J-P
Ozone-induced oxidation of Rubisco: from an ELISA quantification of carbonyls to putative pathways leading to oxidizing mechanisms. 1357
Kato MC, Hikosaka K, Hirose T
Photoinactivation and recovery of photosystem II in *Chenopodium album* leaves grown at different levels of irradiance and nitrogen availability. 787
Kato T
See Upadhyaya NM *et al.* 547
Katoh H
See Shibata M *et al.* 123
Kerdnaimongkol K
See Maggio A *et al.* 845
Kevers C
See Faivre-Rampant O *et al.* 63
Kilmartin PA
See Neill SO *et al.* 1437
Kim HY
See Seneweera SP *et al.* 945
Kirchhoff H
See Schöttler MA *et al.* 697
Knowles A
See Shabala S and Knowles A 595
Kobayashi K
See Seneweera SP *et al.* 945
Kohinata T
See Miura K *et al.* 211
Korb R
See Raven JA *et al.* 355
Kosmas SA
See Voloudakis AE *et al.* 1237
Kosmidou K
See Voloudakis AE *et al.* 1237
Kraepiel AML
See Morel FMM *et al.* 301
Kraus E, Voeten M, Lambers H
Allelopathic and autotoxic interactions in selected populations of *Lolium perenne* grown in monoculture and mixed culture. 1465
Kronstadt WE
See Lopez CG *et al.* 1417
Kruger EL
See McDonald EP *et al.* 1115
Ku MSB
See Guralnick LJ *et al.* 763
See Pinto ME *et al.* 1189
Kübler JE
See Raven JA *et al.* 355

Labate CA
See González ER *et al.* 97
Labate MTV
See González ER *et al.* 97
Lacerda GC
See González ER *et al.* 97
Laing WA, Greer DH, Campbell BD
Strong responses of growth and photosynthesis of five C_3 pasture species to elevated CO_2 at low temperatures. 1089
Lambers H
See de Groot CC *et al.* 1319
See Kraus E *et al.* 1465
Lane DR, BassiriRad H
Differential responses of tallgrass prairie species to nitrogen loading and varying ratios of NO_3^- to NH_4^+. 1227
Lane TW
See Morel FMM *et al.* 301
Laplaze L
See Smouni A *et al.* 649
Larbi A, Morales F, Abadía A, Gogorcena Y, Lucena JJ, Abadía J
Effects of Cd and Pb in sugar beet plants grown in nutrient solution: induced Fe deficiency and growth inhibition. 1453
Larkin PJ
See Jenkins CLD *et al.* 1287
Larroque O
See Wardlaw IF *et al.* 25
Läuchli A
See Mühling KH and Läuchli A 1491
Laws EA, Popp BN, Cassar N, Tanimoto J
^{13}C discrimination patterns in oceanic phytoplankton: likely influence of CO_2 concentrating mechanisms, and implications for palaeoreconstructions. 323
Lee H-Y, Hong Y-N, Chow WS
Putative effects of pH in intra-chloroplast compartments on photoprotection of functional photosystem II complexes by photoinactivated neighbours and on recovery from photoinactivation in *Capsicum annuum* leaves. 607
Leggat W, Marendy EM, Baillie B, Whitney SM, Ludwig M, Badger MR, Yellowlees D
Dinoflagellate symbioses: strategies and adaptations for the acquisition and fixation of inorganic carbon. 309
Lewis-Henderson WR
See Roddam LF *et al.* 473
Li N
See Lu B *et al.* 987
Li X-P, Phippard A, Pasari J, Niyogi KK
Structure–function analysis of photosystem II subunit S (PsbS) *in vivo*. 1131
Liao JX, Hou ZD, Wang GX
Effects of elevated CO_2 and drought on chemical composition and decomposition of spring wheat (*Triticum aestivum*). 891
Lieffering M
See Seneweera SP *et al.* 945
Lilley RMcC
See Wu JH *et al.* 73
Lin C-H
See Yu C-W *et al.* 1081
Lin Z-B
See Ma Q-H *et al.* 1107
Lips SH
See Chen G *et al.* 1329
Llewellyn DJ
See Townsend BJ and Llewellyn DJ 835
Llorens L, Aranda X, Abadía A, Fleck I
Variations in *Quercus ilex* chloroplast pigment content during summer stress: involvement in photoprotection according to principle component analysis. 81
Lo Schiavo F
See Ceccarelli N *et al.* 575

Lopes C
See Maroco JP *et al.* 451
Lopez CG, Banowetz GM, Peterson CJ, Kronstad WE
Wheat dehydrin accumulation in response to drought stress during anthesis. 1417
López-Lefebre LR
See Rivero RM *et al.* 643
Lorenzi R
See Ceccarelli N *et al.* 575
Loukas M
See Voloudakis AE *et al.* 1237
Lovisolo C, Hartung W, Schubert A
Whole-plant hydraulic conductance and root-to-shoot flow of abscisic acid are independently affected by water stress in grapevines. 1349
Lu B, Yu HY, Pei LK, Wong MY, Li N
Prolonged exposure to ethylene stimulates the negative gravitropic responses of *Arabidopsis* inflorescence stems and hypocotyls. 987
Lucena JJ
See Larbi A *et al.* 1453
Lucken U
See Berry L *et al.* 289
Ludwig M
See Leggat W *et al.* 309
Luthe DS
See Heckathorn SA *et al.* 933
Lüttge U
See Broetto F *et al.* 13

Ma Q-H, Lin Z-B, Fu D-Z
Increased seed cytokinin levels in transgenic tobacco influence embryo and seedling development. 1107
Maberly SC, Madsen TV
Freshwater angiosperm carbon concentrating mechanisms: processes and patterns. 393
Madsen TV
See Maberly SC and Madsen TV 393
Maeda S-i
See Price GD *et al.* 131
Maggio A, McCully MG, Kerdnaimongkol K, Bressan RA, Hasegawa PM, Joly RJ
The ascorbic acid cycle mediates signal transduction leading to stress-induced stomatal closure. 845
Manzocchi LA
See Burlini N *et al.* 527
Marcar NE, Criddle RS, Guo J, Zohar Y
Analysis of respiratory metabolism correlates well with the response of *Eucalyptus camaldulensis* seedlings to NaCl and high pH. 925
Marcelis LFM
See de Groot CC *et al.* 1319
Marczak Ł
See Stobiecki M *et al.* 853
Marendy EM
See Leggat W *et al.* 309
Markham KR
See Neill SO *et al.* 1437
Maroco JP, Rodrigues ML, Lopes C, Chaves MM
Limitations to leaf photosynthesis in field-grown grapevine under drought — metabolic and modelling approaches. 451
Márquez AJ
See Pajuelo P *et al.* 485
Martinez-Madrid MC, Flores F, Romojaro F
Behaviour of abscisic acid and polyamines in antisense ACC oxidase melon (*Cucumis melo*) during ripening. 865
Mason CB
See Colombo SL *et al.* 231
Mason MG, Schmidt S
Rapid isolation of total RNA and genomic DNA from *Hakea actities*. 1013
Matsubara S, Gilmore AM, Ball MC, Anderson JM, Osmond CB
Sustained downregulation of photosystem II in mistletoes during winter depression of photosynthesis. 1157
Matsuda Y, Satoh K, Harada H, Satoh D, Hiraoka Y, Hara T
Regulation of the expressions of HCO_3^- uptake and intracellular carbonic anhydrase in response to CO_2 concentration in the marine diatom *Phaeodactylum* sp. 279
Matthews PR, Thornton S, Gubler F, White R, Jacobsen JV
Use of the green fluorescent protein to locate α-amylase gene expression in barley grains. 1037
Matthijs HCP, Jeanjean R, Yeremenko N, Huisman J, Joset F, Hellingwerf KJ
Hypothesis: versatile function of ferredoxin-$NADP^+$ reductase in cyanobacteria provides regulation for transient photosystem I-driven cyclic electron flow. 201
Maxwell K
Resistance is useful: diurnal patterns of photosynthesis in C_3 and crassulacean acid metabolism epiphytic bromeliads. 679
See Griffiths H *et al.* 689
Mazucco RA
See Joyce DC *et al.* 873
McCully MG
See Maggio A *et al.* 845
McDonald EP, Erickson JE, Kruger EL
Can decreased transpiration limit plant nitrogen acquisition in elevated CO_2? 1115
McInroy SG
See Raven JA *et al.* 355
McRae SR, Christopher JT, Smith JAC, Holtum JAM
Sucrose transport across the vacuolar membrane of *Ananas comosus.* 717
Medrano H
See Flexas J and Medrano H 1209
See Flexas J *et al.* 461
Medrano H, Bota J, Abadía A, Sampol B, Escalona JM, Flexas J
Effects of drought on light-energy dissipation mechanisms in high-light-acclimated, field-grown grapevines. 1197
Millar AH
See Holtzapffel RC *et al.* 827
Milligan AJ
See Morel FMM *et al.* 301
Mitchell KA
See Neill SO *et al.* 1437
Miura K, Kohinata T, Yoshioka S, Ohyama K, Fukuzawa H
Regulation of a carbon concentrating mechanism through CCM1 in *Chlamydomonas reinhardtii*. 211
Mondin A
See Ceccarelli N *et al.* 575
Morales F
See Larbi A *et al.* 1453
Morel FMM, Cox EH, Kraepiel AML, Lane TW, Milligan AJ, Schaperdoth I, Reinfelder JR, Tortell PD
Acquisition of inorganic carbon by the marine diatom *Thalassiosira weissflogii*. 301

Moreno DA, Víllora G, Soriano MT, Castilla N, Romero L
Floating row covers affect the molybdenum and nitrogen status of Chinese cabbage grown under field conditions. 585
Corrigendum 907
Moroney JV
See Colombo SL *et al.* 231
Mühling KH, Läuchli A
Determination of apoplastic Na^+ in intact leaves of cotton by *in vivo* fluorescence ratio-imaging. 1491
Müller E
See De Simone O *et al.* 1025
Munné-Bosch S
See Tambussi EA *et al.* 35
Munns R
See James RA *et al.* 1393
See Rivelli AR *et al.* 1065
Murphy TM
See Yu C-W *et al.* 1081

Nagy L
See Halmschlager A *et al.* 443
Nakamura Y
See Spalding MH *et al.* 221
Napoli CA
See Jorgensen RA *et al.* 1501
Narayanan KK
See Upadhyaya NM *et al.* 547
Navarro MT
See Thyssen C *et al.* 251
Neill SO, Gould KS, Kilmartin PA, Mitchell KA, Markham KR
Antioxidant capacities of green and cyanic leaves in the sun species, *Quintinia serrata*. 1437
Neuman DS
See Bano A *et al.* 965
Nicotra AB
See Ball MC *et al.* 1259
Nimmo GA
See Hartwell J *et al.* 663
Nimmo HG
See Hartwell J *et al.* 663
Nishimura T
See Omata T *et al.* 151
Niyogi KK
See Li X-P *et al.* 1131
Nogués S, Alegre L
An increase in water deficit has no impact on the photosynthetic capacity of field-grown Mediterranean plants. 621

O'Donoghue EM
See Eason JR *et al.* 1055
Ogawa T
See Ohkawa H *et al.* 195
See Shibata M *et al.* 123
Ohkawa H
See Shibata M *et al.* 123
Ohkawa H, Sonoda M, Hagino N, Shibata M, Pakrasi HB, Ogawa T
Functionally distinct NAD(P)H dehydrogenases and their membrane localization in *Synechocystis* sp. PCC6803. 195
Ohsugi R
See Scofield GN *et al.* 815
Ohyama K
See Miura K *et al.* 211
Okada M
See Seneweera SP *et al.* 945

Omata T
See Price GD *et al.* 131
Omata T, Takahashi Y, Yamaguchi O, Nishimura T
Structure, function and regulation of the cyanobacterial high-affinity bicarbonate transporter, BCT1. 151
Orea A
See Pajuelo P *et al.* 485
Osmond CB
See Matsubara S *et al.* 1157

Pajuelo E
See Pajuelo P *et al.* 485
Pajuelo P, Pajuelo E, Orea A, Romero JM, Márquez AJ
Influence of plant age and growth conditions on nitrate assimilation in roots of *Lotus japonicus* plants. 485
Pakrasi HB
See Ohkawa H *et al.* 195
Pantoja O
See Barkla BJ *et al.* 1017
Pasari J
See Li X-P *et al.* 1131
Passioura JB
Environmental biology and crop improvement. 537
Paulsen GM
See Guedira M and Paulsen GM 495
Peacock JW
See Upadhyaya NM *et al.* 547
Pei LK
See Lu B *et al.* 987
Peng C-L, Gilmore AM
Comparison of high-light effects with and without methyl viologen indicate barley *chlorina* mutants exhibit contrasting sensitivities depending on the specific nature of the *chlorina* mutation: comparison of wild type, chlorophyll-*b*-less *clo* f_2 and light-sensitive chlorophyll-*b*-deficient *clo* f_{104} mutants. 1171
Peterson CJ
See Lopez CG *et al.* 1417
Pfeiffer I
See Halmschlager A *et al.* 443
Phippard A
See Li X-P *et al.* 1131
Picciarelli P
See Ceccarelli N *et al.* 575
Pinkney TT
See Eason JR *et al.* 1055
Pinto ME, Edwards GE, Riquelme AA, Ku MSB
Enhancement of nodulation in bean (*Phaseolus vulgaris*) by UV-B irradiation. 1189
Piślewska M
See Stobiecki M *et al.* 853
Pollock SV
See Colombo SL *et al.* 231
Popp BN
See Laws EA *et al.* 323
Popp M
See Arndt SK *et al.* 741
See Wanek W *et al.* 725, 733
Press MC
See Bungard RA *et al.* 505
Price GD
See Badger MR *et al.* 161

Price GD, Badger MR
Advances in understanding how aquatic photosynthetic organisms utilize sources of dissolved inorganic carbon for CO_2 fixation. 117
Price GD, Maeda S-i, Omata T, Badger MR
Modes of active inorganic carbon uptake in the cyanobacterium, *Synechococcus* sp. PCC7942. 131
Pritchard J
See Jenkins CLD *et al.* 1287

Quarrie SA
See Cramer GR and Quarrie SA 111
Que Q
See Jorgensen RA *et al.* 1501
Quebedeaux B
See Zhou R *et al.* 569

Ramm K
See Upadhyaya NM *et al.* 547
Rao SK
See Bowes G *et al.* 379
Raschi A
See Tognetti R *et al.* 1097
Ratajczak R
See Broetto F *et al.* 13
Raven JA, Johnston AM, Kübler JE, Korb R, McInroy SG, Handley LL, Scrimgeour CM, Walker DI, Beardall J, Vanderklift M, Fredriksen S, Dunton KH
Mechanistic interpretation of carbon isotope discrimination by marine macroalgae and seagrasses. 355
Reinert F
See Fernandes J *et al.* 757
Reinfelder JR
See Morel FMM *et al.* 301
Reis VM
See Baldani JI *et al.* 417
Reiskind JB
See Bowes G *et al.* 379
Rengifo E
See Fernández MD *et al.* 805
Richards RA
See Duggan BL *et al.* 45
Richter A
See Arndt SK *et al.* 741
Rigoni F
See Bergantino E *et al.* 1181
Rinyu L
See Halmschlager A *et al.* 443
Riquelme AA
See Pinto ME *et al.* 1189
Rivelli AR
See James RA *et al.* 1393
Rivelli AR, James RA, Munns R, Condon AG (Tony)
Effect of salinity on water relations and growth of wheat genotypes with contrasting sodium uptake. 1065
Rivelli AR, Lovelli S, Perniola M
Effects of salinity on gas exchange, water relations and growth of sunflower (*Helianthus annuus*). 1405
Rivero RM, Ruiz JM, García PC, López -Lefebre LR, Sánchez E, Romero L
Response of oxidative metabolism in watermelon plants subjected to cold stress. 643
Robe WE
See Griffiths H *et al.* 689

Roberts A
See Griffiths H *et al.* 689
Roddam LF, Lewis-Henderson WR, Djordjevic MA
Two novel chromosomal loci influence cultivar-specific nodulation failure in the interaction between strain ANU794 and subterranean clover cv. Woogenellup. 473
Erratum 907
Rodrigues ML
See Maroco JP *et al.* 451
Romero JM
See Pajuelo P *et al.* 485
Romero L
See Moreno DA *et al.* 585
See Rivero RM *et al.* 643
Romojaro F
See Martinez-Madrid MC *et al.* 865
Rubinigg M, Stulen I, Elzenga JTM, Colmer TD
Spatial patterns of radial oxygen loss and nitrate net flux along adventitious roots of rice raised in aerated or stagnant solution. 1475
Ruiz JM
See Rivero RM *et al.* 643
Ryan DJ
See Eason JR *et al.* 1055
Ryan KP
See Berry L *et al.* 289
Ryan SL
See Heckathorn SA *et al.* 933

Sage RF
Are crassulacean acid metabolism and C_4 photosynthesis incompatible? 775
Sagi M
See Chen G *et al.* 1329
Salakhutdinov BA
See Gussakovsky EE *et al.* 955
Sampol B
See Flexas J *et al.* 461
See Medrano H *et al.* 1197
Sánchez E
See Rivero RM *et al.* 643
Santhoshkumar C
See Upadhyaya NM *et al.* 547
Sartoretto LM, Cid LPB, Brasileiro ACM
Biolistic transformation of *Eucalyptus grandis* × *E. urophylla* callus. 917
Satoh D
See Matsuda Y *et al.* 279
Satoh K
See Matsuda Y *et al.* 279
Schaperdoth I
See Morel FMM *et al.* 301
Schmidt S
See Mason MG and Schmidt S 1013
Schmidt W
See De Simone O *et al.* 1025
Scholes JD
See Bungard RA *et al.* 505
Schöttler MA, Kirchhoff H, Siebke K, Weis E
Metabolic control of photosynthetic electron transport in crassulacean acid metabolism-induced *Mesembryanthemum crystallinum.* 697
Schubert A
See Lovisolo C *et al.* 1349

Schurr U
See Walter A *et al.* 1247
Scofield GN, Hirose T, Gaudron JA, Upadhyaya NM, Ohsugi R, Furbank RT
Antisense suppression of the rice sucrose transporter gene, *OsSUT1*, leads to impaired grain filling and germination but does not affect photosynthesis. 815
Scrimgeour CM
See Raven JA *et al.* 355
Segalla A
See Bergantino E *et al.* 1181
Seneweera SP, Conroy JP, Ishimaru K, Ghannoum O, Okada M, Lieffering M, Kim HY, Kobayashi K
Changes in source–sink relations during development influence photosynthetic acclimation of rice to free air CO_2 enrichment (FACE). 945
Seufferheld MJ
See Govindjee and Seufferheld MJ 1141
Shabala S, Knowles A
Rhythmic patterns of nutrient acquisition by wheat roots. 595
Shahak Y
See Gussakovsky EE *et al.* 955
Shibata M
See Ohkawa H *et al.* 195
Shibata M, Ohkawa H, Katoh H, Shimoyama M, Ogawa T
Two CO_2 uptake systems in cyanobacteria: four systems for inorganic carbon acquisition in *Synechocystis* sp. strain PCC6803. 123
Shimmen T
See Inada S *et al.* 1273
Shimoyama M
See Shibata M *et al.* 123
Shively JM
See Cannon GC *et al.* 175
Shorter AJ
See Joyce DC *et al.* 873
Sicher RC
See Zhou R *et al.* 569
Siebke K
See Schöttler MA *et al.* 697
Siebke K, Ghannoum O, Conroy JP, von Caemmerer S
Elevated CO_2 increases the leaf temperature of two glasshouse-grown C_4 grasses. 1377
Simpson RJ
See Jenkins CLD *et al.* 1287
Sinclair BK
See Coupe SA *et al.* 1045
Sivakumar R
See Upadhyaya NM *et al.* 547
Slocum DJ
See Woodrow IE *et al.* 103
Smith JAC
See McRae SR *et al.* 717
Smouni A, Laplaze L, Bogusz D, Guermache F, Auguy F, Duhoux E, Franche C
The 35S promoter is not constitutively expressed in the transgenic tropical actinorhizal tree *Casuarina glauca*. 649
Snow AJ
See Jenkins CLD *et al.* 1287
So AK-C, Cot SS-W, Espie GS
Characterization of the *C*-terminal extension of carboxysomal carbonic anhydrase from *Synechocystis* sp. PCC6803. 183
Somerfield SD
See Coupe SA *et al.* 1045
Sommer-Knudsen J
See Bidwell SD *et al.* 899
Sonobe S
See Inada S *et al.* 1273
Sonoda M
See Ohkawa H *et al.* 195
Soriano MT
See Moreno DA *et al.* 585
Spalding MH, Van K, Wang Y, Nakamura Y
Acclimation of *Chlamydomonas* to changing carbon availability. 221
Spilotro P
See Govindjee and Spilotro P 425
Stobiecki M, Buśko M, Marczak Ł, Bednarek P, Piślewska M, Wojtaszek P
The complexity of oxidative cross-linking of phenylpropanoids — evidence from an *in vitro* model system. 853
Strong GL
See Bannister P *et al.* 1309
Strong GL, Bannister P
Water relations of temperate mistletoes on various hosts. 89
Stulen I
See Rubinigg M *et al.* 1475
Sültemeyer D
See Thyssen C *et al.* 251
See van Hunnik E and Sültemeyer D 243
Sung W-W
See Yu C-W *et al.* 1081
Szabò I
See Bergantino E *et al.* 1181

Takahashi Y
See Omata T *et al.* 151
Tambussi EA, Casadesus J, Munné-Bosch S, Araus JL
Photoprotection in water-stressed plants of durum wheat (*Triticum turgidum* var. *durum*): changes in chlorophyll fluorescence, spectral signature and photosynthetic pigments. 35
Tandori J
See Halmschlager A *et al.* 443
Tanimoto J
See Laws EA *et al.* 323
Taybi T, Cushman JC, Borland AM
Environmental, hormonal and circadian regulation of crassulacean acid metabolism expression. 669
Taylor AR
See Berry L *et al.* 289
Terashima K
See Umemoto T and Terashima K 1121
Tezara W
See Fernández MD *et al.* 805
Thornton S
See Matthews PR *et al.* 1037
Thyssen C, van Hunnik E, Navarro MT, Fernández E, Galván A, Sültemeyer D
Analysis of *Chlamydomonas* mutants with abnormal expression of CO_2 and HCO_3^- uptake systems. 251
Tognetti JA
See Equiza MA and Tognetti JA 1427
Tognetti R, Raschi A, Jones MB
Seasonal changes in tissue elasticity and water transport efficiency in three co-occurring Mediterranean shrubs under natural long-term CO_2 enrichment. 1097
Tortell PD
See Morel FMM *et al.* 301

Townsend BJ, Llewellyn DJ
Spatial and temporal regulation of a soybean (*Glycine max*) lectin promoter in transgenic cotton (*Gossypium hirsutum*). 835
Trotta M
See Halmschlager A *et al.* 443
Tsakas S
See Voloudakis AE *et al.* 1237
Tsuyuzaki H
See Duggan BL *et al.* 45
Turnbull MH
See Guo J *et al.* 517

Umemoto T, Terashima K
Activity of granule-bound starch synthase is an important determinant of amylose content in rice endosperm. 1121
Upadhyaya NM
See Scofield GN *et al.* 815
Upadhyaya NM, Zhou X-R, Zhu Q-H, Ramm K, Wu L, Eamens A, Sivakumar R, Kato T, Yun D-W, Santhoshkumar C, Narayanan KK, Peacock JW, Dennis ES
An *iAc/Ds* gene and enhancer trapping system for insertional mutagenesis in rice. 547

Van K
See Spalding MH *et al.* 221
van den Boogaard R
See de Groot CC *et al.* 1319
van Hunnik E
See Thyssen C *et al.* 251
van Hunnik E, Sültemeyer D
A possible role for carbonic anhydrase in the lumen of chloroplast thylakoids in green algae. 243
Van Onckelen H
See Faivre-Rampant O *et al.* 63
Vanderklift M
See Raven JA *et al.* 355
Vanderleyden J
See Zhu G-Y *et al.* 1279
Vardy KA, Emes MJ, Burrell MM
Starch synthesis in potato tubers transformed with wheat genes for ADPglucose pyrophosphorylase. 975
Vartanian N
See Bianchi MW *et al.* 55
Vera-Estrella R
See Barkla BJ *et al.* 1017
Víllora G
See Moreno DA *et al.* 585
Voeten M
See Kraus E *et al.* 1465
Voloudakis AE, Kosmas SA, Tsakas S, Eliopoulos E, Loukas M, Kosmidou K
Expression of selected drought-related genes and physiological response of Greek cotton varieties. 1237
von Caemmerer S
See Ghannoum O *et al.* 1337
See James RA *et al.* 1393
See Siebke K *et al.* 1377

Walker DI
See Raven JA *et al.* 355
Walter A, Feil R, Schurr U
Restriction of nyctinastic movements and application of tensile forces to leaves affects diurnal patterns of expansion growth. 1247
Wanek W
See Arndt SK *et al.* 741
Wanek W, Huber W, Arndt SK, Popp M
Mode of photosynthesis during different life stages of hemiepiphytic *Clusia* species. 725
Wanek W, Arndt SK, Huber W, Popp M
Nitrogen nutrition during ontogeny of hemiepiphytic *Clusia* species. 733
Wang D
See Heckathorn SA *et al.* 933
Wang GX
See Liao JX *et al.* 891
Wang Y
See Spalding MH *et al.* 221
Wardlaw IF, Blumenthal C, Larroque O, Wrigley CW
Contrasting effects of chronic heat stress and heat shock on kernel weight and flour quality in wheat. 25
Waterhouse PM
See Helliwell CA *et al.* 1217
Weis E
See Schöttler MA *et al.* 697
Werner C, Correia O, Beyschlag W
Characteristic patterns of chronic and dynamic photoinhibition of different functional groups in a Mediterranean ecosystem. 999
Wesley SV
See Helliwell CA *et al.* 1217
White R
See Matthews PR *et al.* 1037
Whitney SM
See Leggat W *et al.* 309
Wielopolska AJ
See Helliwell CA *et al.* 1217
Wilkins MB
See Hartwell J *et al.* 663
Wojtaszek P
See Stobiecki M *et al.* 853
Wolfe J
See Ball MC *et al.* 1259
Wong MY
See Lu B *et al.* 987
Woodrow IE
See Bidwell SD *et al.* 899
See Goodger JQD and Woodrow IE 1445
Woodrow IE, Slocum DJ, Gleadow RM
Influence of water stress on cyanogenic capacity in *Eucalyptus cladocalyx*. 103
Wrigley CW
See Wardlaw IF *et al.* 25
Wu JH, Zhang R, Lilley RMcC
Methylation of arsenic *in vitro* by cell extracts from bentgrass (*Agrostis tenuis*): effect of acute exposure of plants to arsenate. 73
Wu L
See Upadhyaya NM *et al.* 547

Yamaguchi O
See Omata T *et al.* 151
Yellowlees D
See Leggat W *et al.* 309
Yeremenko N
See Matthijs HCP *et al.* 201
Yoshioka S
See Miura K *et al.* 211

Yu C-W, Murphy TM, Sung W-W, Lin C-H
H_2O_2 treatment induces glutathione accumulation and chilling tolerance in mung bean. 1081
Yu HY
See Lu B *et al.* 987
Yun D-W
See Upadhyaya NM *et al.* 547

Zavala JA, Botto JF
Impact of solar UV-B radiation on seedling emergence, chlorophyll fluorescence, and growth and yield of radish (*Raphanus sativus*). 797
Zhang R
See Wu JH *et al.* 73
Zhou R, Sicher RC, Quebedeaux B
Apple leaf sucrose-phosphate synthase is inhibited by sorbitol-6-phosphate. 569
Zhou X-R
See Upadhyaya NM *et al.* 547
Zhu G-Y, Dobbelaere S, Vanderleyden J
Use of green fluorescent protein to visualize rice root colonization by *Azospirillum irakense* and *A. brasilense*. 1279
Zhu Q-H
See Upadhyaya NM *et al.* 547
Zipperlen SA
See Bungard RA *et al.* 505
Ziska LH
Sensitivity of ragweed (*Ambrosia artemisiifolia*) growth to urban ozone concentrations. 1365
Influence of rising atmospheric CO_2 since 1900 on early growth and photosynthetic response of a noxious invasive weed, Canada thistle (*Cirsium arvense*). 1387
Zohar Y
See Marcar NE *et al.* 925