

Functional Plant Biology

Continuing *Australian Journal of Plant Physiology*

Index to Volume 31 (2004)

- Abeles F B
See Callahan A M *et al.* 159
- Adams III W W
See Barker D H *et al.* 781
- Adams III W W
See Bachmann K M *et al.* 803
- Adams M A
See Bleby T M *et al.* 645
- Adams M A
See Warren C R *et al.* 1169
- Adu-Gyamfi J J
See Mohapatra P K *et al.* 131
- Alberdi M
See Pérez-Torres E *et al.* 731
- Alcántara E
See Romera F J *et al.* 315
- Alegre L
See Munné-Bosch S *et al.* 203
- Aoki N
See Umemoto T *et al.* 671
- Araus J L
See Lopes M S *et al.* 995
- Arce-Johnson P
See Stange C *et al.* 149
- Arigita L, Sánchez Tamés R, González A
Ethylene biosynthesis and endogenous polyamines in relation to development of *in vitro* cultured kiwifruit explants. 603
- Ashwath N
See Bhatia N P *et al.* 1061
- Auh C-K
See Chen L *et al.* 235
- Avice J-C
See Kim T-H *et al.* 847
- Azedo-Silva J, Osório J, Fonseca F, Correia M J
Effects of soil drying and subsequent rewetting on the activity of nitrate reductase in roots and leaves of *Helianthus annuus*. 611
- Azevedo R A
See Medici L O *et al.* 1
- Azevedo R A, Damerval C, Lea P J, Landry J, Bellato C M, Meinhardt L W, Le Guilloux M, Delhay S, Toro A A, Gaziola S A, Varisi V A, Gratão P L
Genetic control of lysine metabolism in maize endosperm mutants. 339
- Bachmann K M, Ebbert V, Adams III W W, Verhoeven A S, Logan B A, Demmig-Adams B
Effects of lincomycin on PSII efficiency, non-photochemical quenching, D1 protein, and xanthophyll cycle during photoinhibition and recovery. 803
- Bacon M A
See Mingo D *et al.* 971
- Badeck F
See Tcherkez G *et al.* 857
- Badiani M
See Sanità di Toppi L *et al.* 329
- Bagnoli F, Danti S, Magherini V, Cozza R, Innocenti A M, Racchi M L
Molecular cloning, characterisation and expression of two catalase genes from peach (*Prunus persica*). 349
- Baker A J M
See Bhatia N P *et al.* 1061
- Ball M C, Canny M J, Huang C X, Heady R D
Structural changes in acclimated and unacclimated leaves during freezing and thawing. 29
- Banerjee S
See Ko K *et al.* 285
- Barker D H, Marszałek J F, Zimpfer J F, Adams III W W
Changes in photosynthetic pigment composition and absorbed energy allocation during salt stress and CAM induction in *Mesembryanthemum crystallinum*. 781
- Barrett D J
See Roxburgh S H *et al.* 1043
- Barron-Gafford G
See Pegoraro E *et al.* 1137
- Barta C, Kalai T, Hideg K, Vass I, Hideg E
Differences in the ROS-generating efficacy of various ultraviolet wavelengths in detached spinach leaves. 23
- Barth C
See Krause G H *et al.* 743
- Barton C
See Zeppel M J B *et al.* 461
- Bassett C
See Callahan A M *et al.* 159
- Becerril J M
See García-Plazaola J I *et al.* 815
- Beebe S E
See Liao H *et al.* 959
- Bell J
See Chen L *et al.* 235
- Bellato C M
See Azevedo R A *et al.* 339
- Bennett J
See Latha R *et al.* 1035
- Berry S L
See Roxburgh S H *et al.* 1043
- Beveridge C A
See Dodd I C *et al.* 903
- Beyschlag W
See Niinemets Ü *et al.* 1179
- Bhatia N P, Walsh K B, Orlic I, Siegele R, Ashwath N, Baker A J M
Studies on spatial distribution of nickel in leaves and stems of the metal hyperaccumulator *Stackhousia tryonii* using nuclear microprobe (micro-PIXE) and EDXS techniques. 1061
- Blair M W
See Liao H *et al.* 959
- Bleby T M, Burgess S S O, Adams M A
A validation, comparison and error analysis of two heat-pulse methods for measuring sap flow in *Eucalyptus marginata* saplings. 645

- Bobich E G
See Pegoraro E *et al.* 1137
- Boldingh H
See Klages K U *et al.* 1205
- Bonnett D
See Ellis M H *et al.* 583
- Bota J, Stasyk O, Flexas J, Medrano H
Effect of water stress on partitioning of ^{14}C -labelled photosynthates in *Vitis vinifera*. 697
- Boyer J S, Silk W K
Hydraulics of plant growth. 761
- Bravo L A
See Pérez-Torres E *et al.* 731
- Brill E M
See Watson J M *et al.* 225
- Brill E M, Watson J M
Ectopic expression of a *Eucalyptus grandis* SVP orthologue alters the flowering time of *Arabidopsis thaliana*. 217
- Brouquisse R
See Moing A *et al.* 889
- Bulley S
See Laing W A *et al.* 1015
- Burgess S S O
See Bleby T M *et al.* 645
- Cairns A
See Yu Q *et al.* 247
- Callahan A M, Scorza R, Bassett C, Nickerson M, Abeles F B
Deletions in an endopolygalacturonase gene cluster correlate with non-melting flesh texture in peach. 159
- Canny M J
See Ball M C *et al.* 29
- Carter J O
See Roxburgh S H *et al.* 1043
- Castleden C K
See Trevanion S J *et al.* 685
- Chai Y
See Liao Z *et al.* 73
- Chaillou S
See Zapata C *et al.* 1127
- Chandler P
See Ellis M H *et al.* 583
- Chen J
See Jin L *et al.* 979
- Chen L, Auh C-K, Dowling P, Bell J, Lehmann D, Wang Z-Y
Transgenic down-regulation of caffeic acid O-methyltransferase (COMT) led to improved dry matter digestibility in tall fescue (*Festuca arundinacea*). 235
- Chen M
See Liao Z *et al.* 73
- Chen X
See Williams R J *et al.* 415
- Chen X, Gao K
Photosynthetic utilisation of inorganic carbon and its regulation in the marine diatom *Skeletonema costatum*. 1027
Characterisation of diurnal photosynthetic rhythms in the marine diatom *Skeletonema costatum* grown in synchronous culture under ambient and elevated CO_2 . 399
- Cheung M-K
See Desikan R *et al.* 913
- Chow W S
See Hendrickson L *et al.* 789
- Clark G T, Zuther E, Outred H A, McManus M T, Heyer A G
Tissue-specific changes in remobilisation of fructan in the xerophytic tussock species *Festuca novae-zelandiae* in response to a water deficit. 377
- Clarke A
See Desikan R *et al.* 913
- Close D C
See Watson T L *et al.* 481
- Cmiel M
See Regina A *et al.* 591
- Conroy J P
See Searson M J *et al.* 441
- Cook G D
See Williams R J *et al.* 415
- Cooney J M
See Klages K U *et al.* 1205
- Corcuera L J
See Pérez-Torres E *et al.* 731
- Corradi M G
See Sanità di Toppi L *et al.* 329
- Correia M J
See Azedo-Silva J *et al.* 611
- Coupe S A
See Winichayakul S *et al.* 63, 573
- Cozza R
See Bagnoli F *et al.* 349
- Creissen G
See Hernández J A *et al.* 359
- Criddle R S
See Matheson S *et al.* 929
- Critchley C
See Rokitta M *et al.* 879
- Cuevas J C, Sánchez D H, Marina M, Ruiz O A
Do polyamines levels modulate the *Lotus glaber* NADPH oxidation activity induced by the herbicide methyl viologen? 921
- Damerval C
See Azevedo R A *et al.* 339
- Danti S
See Bagnoli F *et al.* 349
- Davidson N J
See Watson T L *et al.* 481
- Davies I D
See Roxburgh S H *et al.* 1043
- Davies K M
See Winichayakul S *et al.* 63, 573
- Davies N W
See Watson T L *et al.* 481
- Davies W J
See Mingo D *et al.* 971
- Deleens E
See Zapata C *et al.* 1127
- Delhay S
See Azevedo R A *et al.* 339
- Demmig-Adams B
See Bachmann K M *et al.* 803
- Dennison W C
See Schmidt S *et al.* 517
- Denoyes-Rothan B
See Moing A *et al.* 889
- Desikan R, Cheung M-K, Clarke A, Golding S, Sagi M, Fluhr R, Rock C, Hancock J, Neill S
Hydrogen peroxide is a common signal for darkness- and ABA-induced stomatal closure in *Pisum sativum*. 913

- Desprez-Loustau M-L
See Maurel M *et al.* 41
- Dinamarca J
See Pérez-Torres E *et al.* 731
- Dodd I C
See Mingo D M *et al.* 971
- Dodd I C, Ngo C, Turnbull C G N, Beveridge C A
Effects of nitrogen supply on xylem cytokinin delivery, transpiration and leaf expansion of pea genotypes differing in xylem-cytokinin concentration. 905
- Doley D
Evolution of water relations research in Australia 405
- Dowling P
See Chen L *et al.* 235
- Dreyer E
See Maurel M *et al.* 41
- Du Y-S
See Zhou Y-H *et al.* 1215
- Dulai S
See Molnár I *et al.* 1149
- Dunn J L, Turnbull J D, Robinson S A
Comparison of solvent regimes for the extraction of photosynthetic pigments from leaves of higher plants. 195
- Eamus D
See Macinnis-Ng C *et al.* 429
See Zeppel M J B *et al.* 461
- Ebbert V
See Bachmann K M *et al.* 803
- Edwards A
See Williams R J *et al.* 415
- Ellingson D J
See Matheson S *et al.* 929
- Ellis M H, Rebetzke G J, Chandler P, Bonnett D, Spielmeyer W, Richards R A
The effect of different height reducing genes on the early growth of wheat. 583
- Elorza A
See Stange C *et al.* 149
- Elzenga J T M
See Rubinigg M *et al.* 775
- Escobar C
See Hernández J A *et al.* 359
- Evans J R
See June T *et al.* 275
- Farnden K J F
See Winichayakul S *et al.* 63, 573
- Farquhar G D
See June T *et al.* 275
See Tcherkez G *et al.* 857
- Farrar J F
See Pritchard J *et al.* 1095
- Favali M A
See Sanità di Toppi L *et al.* 329
- Ferrieri R A
See Pritchard J *et al.* 1095
- Fillery I R P
See Liao M *et al.* 121
- Flexas J
See Bota J *et al.* 697
- Fluhr R
See Desikan R *et al.* 913
- Fonseca F
See Azedo-Silva J *et al.* 611
- Foyer C H
See Trevanion S J *et al.* 685
- Frearson N
See Laing W A *et al.* 1015
- Fujita K
See Mohapatra P K *et al.* 131
- Furbank R T
See Trevanion S J *et al.* 685
See Hendrickson L *et al.* 789
- Galiba G
See Molnár I *et al.* 1149
- Gao K
See Chen X *et al.* 399, 1027
- García A
See Pérez-Torres E *et al.* 731
- García-Plazaola J I, Hormaetxe K, Hernández A, Olano J M, Becerril J M
The lutein epoxide cycle in vegetative buds of woody plants. 815
- Gascó A, Nardini A, Salleo S
Resistance to water flow through leaves of *Coffea arabica* is dominated by extra-vascular tissues. 1161
- Gáspár L
See Molnár I *et al.* 1149
- Gaudillère M
See Moing A *et al.* 889
- Gaziola S A
See Azevedo R A *et al.* 339
- Ghashghaie J
See Tcherkez G *et al.* 857
- Gianibelli M C
See Regina A *et al.* 591
- Gidekel M
See Pérez-Torres E *et al.* 731
- Giersch C
See Noe S M *et al.* 1195
- Gifford R M
See Roxburgh S H *et al.* 1043
- Gilbert M, Skotnica J, Weingart I, Wilhelm C
Effects of UV irradiation on barley and tomato leaves: thermoluminescence as a method to screen the impact of UV radiation on crop plants. 825
- Gimmler H
See Woiwte M *et al.* 53
- Gleadow R M
See Miller R E *et al.* 491
See King D J *et al.* 451
- Goggin D E, Setter T L
Fructosyltransferase activity and fructan accumulation during development in wheat exposed to terminal drought. 11
- Golding S
See Desikan R *et al.* 913
- Gong Y
See Liao Z *et al.* 73
- González A
See Arigita L *et al.* 603
- Gould N
See Pritchard J *et al.* 1095
- Gould N, Minchin P E H, Thorpe M R
Direct measurements of sieve element hydrostatic pressure reveal strong regulation after pathway blockage. 987

- Gould N, Thorpe M R, Minchin P E H, Pritchard J, White P J
Solute is imported to elongating root cells of barley as a pressure-driven flow of solution. 391
- Gousset-Dupont A
See Moing A *et al.* 889
- Gratão P L
See Azevedo R A *et al.* 339
- Granot D
See Moing A *et al.* 889
- Gray D W
See Pritchard J *et al.* 1095
- Green S R
See Greer D H *et al.* 169
- Greer D H, Seleznyova A N, Green S R
From controlled environments to field simulations: leaf area dynamics and photosynthesis of kiwifruit vines (*Actinidia deliciosa*). 169
- Grieve K A
See Pegoraro E *et al.* 1137
- Groom P K
Rooting depth and plant water relations explain species distribution patterns within a sandplain landscape. 423
See Wright I J *et al.* 551
- Grube E
See Krause G H *et al.* 743
- Gu Y
See Jin L *et al.* 979
- Guo J, Trotter C
Estimating photosynthetic light-use efficiency using the photochemical reflectance index: variations among species. 255
- Gutiérrez A
See Pérez-Torres E *et al.* 731
- Hamill J D
See Sinclair S J *et al.* 721
- Hancock J
See Desikan R *et al.* 913
- Hansen L D
See Matheson S *et al.* 929
- Hare J D
See Smith J L *et al.* 267
- Hare R A
See Lindsay M P *et al.* 1105
- Hariadi Y, Shabala S N
Screening broad beans (*Vicia faba*) for magnesium deficiency. I. Growth kinetics, visual deficiency symptoms and plant nutritional status. 529
Screening broad beans (*Vicia faba*) for magnesium deficiency. II. Photosynthetic performance and leaf bioelectrical responses. 539
- Hartung W
See Jiang F *et al.* 633
See Woiatke M *et al.* 53
- Heady R D
See Ball M C *et al.* 29
- Heilmeyer H
See Woiatke M *et al.* 53
- Hendrickson L, Chow W S, Furbank R T
Low temperature effects on grapevine photosynthesis: the role of inorganic phosphate. 789
- Hernández A
See Garcia-Plazaola J I *et al.* 815
- Hernández J A, Escobar C, Creissen G, Mullineaux P M
Role of hydrogen peroxide and the redox state of ascorbate in the induction of antioxidant enzymes in pea leaves under excess light stress. 359
- Heyer A G
See Clark G T *et al.* 377
- Hideg E
See Barta C *et al.* 23
- Hideg K
See Barta C *et al.* 23
- Hirabayashi H
See Umemoto T *et al.* 671
- Hoffman B
See Molnár I *et al.* 1149
- Hormaetxe K
See Garcia-Plazaola J I *et al.* 815
- Hovenden M J
See Kern S O *et al.* 471
- Huang C X
See Ball M C *et al.* 29
- Huang L-F
See Zhou Y-H *et al.* 1215
- Hüner N P A
See Pérez-Torres E *et al.* 731
- Husain S, von Caemmerer S, Munns R E
Control of salt transport from roots to shoots of wheat in saline soil. 1115
- Hutley L B
See Williams R J *et al.* 415
- Innes J
See Ko K *et al.* 285
- Innocenti A M
See Bagnoli F *et al.* 349
- Inouchi N
See Umemoto T *et al.* 671
- Itani T
See Mohapatra P K *et al.* 131
- Ivanov A G
See Pérez-Torres E *et al.* 731
- Jarmey J M
See Rae A L *et al.* 141
- Jeschke W D
See Jiang F *et al.* 633
- Jiang F, Jeschke W D, Hartung W
Solute flows from *Hordeum vulgare* to the hemiparasite *Rhinanthus minor* and the influence of infection on host and parasite nutrient relations. 633
- Jin L, Gu Y, Chen J, Li B
The history of *Solidago canadensis* invasion and the development of its mycorrhizal associations in newly reclaimed land. 979
- Johnson R
See Sinclair S J *et al.* 721
- Jordan G J
See Kern S O *et al.* 471
- June T, Evans J R, Farquhar G D
A simple new equation for the reversible temperature dependence of photosynthetic electron transport: a study on soybean leaf. 275
- Jung W-J
See Kim T-H *et al.* 847

- Kalai T
See Barta C *et al.* 23
- Kaligarič M
See Marchi S *et al.* 181
- Kato T
See Mohapatra P K *et al.* 131
- Kennedy G C, Wilson I B H
Plant functional genomics: opportunities in microarray databases and data mining. 295
- Kern S O, Hovenden M J, Jordan G J
The impacts of leaf shape and arrangement on light interception and potential photosynthesis in southern beech (*Nothofagus cunninghamii*). 471
- Kim K-Y
See Kim T-H *et al.* 847
- Kim T-H, Lee B-R, Jung W-J, Kim K-Y, Avice J-C, Ourry A
De novo protein synthesis in relation to ammonia and proline accumulation in water stressed white clover. 847
- King D J, Gleadow R M, Woodrow I E
Terpene deployment in *Eucalyptus polybractea*: relationships with leaf structure, environmental stresses, and growth. 451
- Kirschbaum M U F
See Roxburgh S H *et al.* 1043
- Klages K U, Boldingh H, Cooney J M, MacRae E
Planteose is a short-term storage carbohydrate in *Actinidia* leaves. 1205
- Ko K, Banerjee S, Innes J, Taylor D, Ko Z
The Tic40 translocon components exhibit preferential interactions with different forms of the Oee1 plastid protein precursor 285
- Ko Z
See Ko K *et al.* 285
- Kong J
See Li S *et al.* 369
- Konik-Rose C
See Regina A *et al.* 591
- Koroleva O
See Krause G H *et al.* 743
- Kosar-Hashemi B
See Regina A *et al.* 591
- Krause G H, Grube E, Koroleva O, Barth C, Winter K
Do mature shade leaves of tropical tree seedlings acclimate to high sunlight and UV radiation? 743
- LaMotte C E, Pickard B G
Control of gravitropic orientation. I. Non-vertical orientation by primary roots of maize results from decay of competence for orthogravitropic induction. 93
Control of gravitropic orientation. II. Dual receptor model for gravitropism. 109
- Lagudah E S
See Lindsay M P *et al.* 1105
- Laing W A, Frearson N, Bulley S, MacRae E
Kiwifruit L-galactose dehydrogenase: molecular, biochemical and physiological aspects of the enzyme. 1015
- Lamont B B
See Wright I J *et al.* 551
- Landry J
See Azevedo R A *et al.* 339
- Lanini M
See Marchi S *et al.* 181
- Larroque O
See Regina A *et al.* 591
- Latha R, Salekdeh G H, Bennett J, Swaminathan M S
Molecular analysis of a stress-induced cDNA encoding the translation initiation factor *eIF1* from salt tolerant wild relative of rice, *Porteresia coarctata*. 1035
- Le Guilloux M
See Azevedo R A *et al.* 339
- Lea P J
See Medici L O *et al.* 1
See Azevedo R A *et al.* 339
- Lebouteiller B
See Moing A *et al.* 889
- Lee B-R
See Kim T-H *et al.* 847
- Lehmann D
See Chen L *et al.* 235
- Lemour R
See Steppe K *et al.* 83
- Lerceteau-Köhler E
See Moing A *et al.* 889
- Li B
See Jin L *et al.* 979
- Li S, Wan C, Kong J, Zhang Z, Li Y S, Zhu Y G
Programmed cell death during microgenesis in Honglian CMS line of rice is correlated with oxidative stress in mitochondria. 369
- Li Y S
See Li S *et al.* 369
- Li Z
See Regina A *et al.* 591
- Liao H, Yan X, Rubio G, Beebe S E, Blair M W, Lynch J P
Genetic mapping of basal root gravitropism and phosphorus acquisition efficiency in common bean. 959
- Liao M, Fillery I R P, Palta J A
Early vigorous growth is a major factor influencing nitrogen uptake in wheat. 121
- Liao Z, Tan Q, Chai Y, Zuo K, Chen M, Gong Y, Wang P, Pi Y, Tan F, Sun X, Tang K
Cloning and characterisation of the gene encoding HMG-CoA reductase from *Taxus media* and its functional complementation in yeast. 73
- Ligaba A, Yamaguchi M, Shen H, Sasaki T, Yamamoto Y, Matsumoto H
Phosphorus deficiency enhances plasma membrane H⁺-ATPase activity and citral exudation in greater purple lupin (*Lupinus pilosus*). 1075
- Lin H
See Umemoto T *et al.* 671
- Lindsay M P, Lagudah E S, Hare R A, Munns R
A locus for sodium exclusion (*Nax1*), a trait for salt tolerance, mapped in durum wheat. 1105
- Liu J
See Reid R *et al.* 941
- Logan B A
See Bachmann K M *et al.* 803
- Lopes M S, Nogués S, Araus J L
Nitrogen source and water regime effects on barley photosynthesis and stable carbon and nitrogen isotope signature. 995
- Loustau M-L
See Maurel M *et al.* 41
- Loveys B R
See Soar C J *et al.* 659
- Lunn J E
See Trevanion S J *et al.* 685

- Lynch J P
 See St.Clair S B *et al.* 1005
 See Liao H *et al.* 959
 See Zhu J *et al.* 949
- MacRae E
 See Laing W A *et al.* 1015
 See Pritchard J *et al.* 1095
 See Klages K U *et al.* 1205
- Macinnis-Ng C, McClenahan K, Eamus D
 Convergence in hydraulic architecture, water relations and primary productivity amongst habitats and across seasons in Sydney. 429
- Maffei S M
 See Soar C J *et al.* 659
- Magherini V
 See Bagnoli F *et al.* 349
- Maglietta F
 See Marchi S *et al.* 181
- Magné C
 See Zapata C *et al.* 1127
- Malhi Y
 See Pegoraro E *et al.* 1137
- Mallia R J
 See Subhash N *et al.* 709
- Marabottini R
 See Sanità di Toppi L *et al.* 329
- Marchi S, Tognetti R, Vaccari F P, Lanini M, Kaligarič M, Maglietta F, Raschi A
 Physiological and morphological responses of grassland species to elevated atmospheric CO₂ concentrations in FACE systems and natural CO₂ springs. 181
- Marina M
 See Cuevas J *et al.* 921
- Marschner P
 See Rumberger A *et al.* 623
- Marszalek J
 See Barker D H *et al.* 781
- Maruyama S
 See Umemoto T *et al.* 671
- Masamoto Y
 See Mohapatra P K *et al.* 131
- Matheson S, Ellingson D J, McCarlie V W, Smith B N, Criddle R S, Rodier L, Hansen L D
 Determination of growth and maintenance coefficients by calorespirometry. 929
- Matsumoto H
 See Ligaba A *et al.* 1075
- Matus J T
 See Stange C *et al.* 149
- Maucourt M
 See Moing A *et al.* 889
- Maurel M, Robin C, Simonneau T, Loustau D, Dreyer E, Desprez-Loustau M-L
 Stomatal conductance and root-to-shoot signalling in chestnut saplings exposed to *Phytophthora cinnamomi* or partial soil drying. 41
- McBeth B P
 See Roxburgh S H *et al.* 1043
- McCarlie V W
 See Matheson S *et al.* 929
- McClenahan K
 See Macinnis-Ng C *et al.* 429
- McManus M T
 See Clark G T *et al.* 377
- Medek D
 See Rokitta M *et al.* 879
- Medici L O, Azevedo R A, Smith R J, Lea P J
 The influence of nitrogen supply on antioxidant enzymes in plant roots. 1
- Medrano H
 See Bota J *et al.* 697
- Meinhardt L W
 See Azevedo R A *et al.* 339
- Millar A H
 Location location location: surveying the intracellular real estate through proteomics in plants. 563
- Miller R E, Gleadow R M, Woodrow I E
 Cyanogenesis in tropical *Prunus turneriana*: characterisation, variation and response to low light. 491
- Minchin P E H
 See Gould N *et al.* 391, 987
 See Pritchard J *et al.* 1095
- Mingo D, Theobald J C, Bacon M A, Davies W J, Dodd I C
 Biomass allocation in tomato (*Lycopersicon esculentum*) plants grown under partial rootzone drying: enhancement of root growth. 971
- Mohan C N
 See Subhash N *et al.* 709
- Mohapatra P K, Masamoto Y, Morita S, Takanashi J, Kato T, Itani T, Adu-Gyamfi J J, Shunmugasundaram M, Nguyen N T, Saneoka H, Fujita K
 Partitioning of ¹³C-labelled photosynthate varies with growth stage and panicle size in high-yielding rice. 131
- Moing A, Maucourt M, Renaud C, Gaudillère M, Brouquisse R, Lebouteiller B, Gousset-Dupont A, Vidal J, Granot D, Denoyes-Rothan B, Lerceteau-Köhler E, Rolin D
 Quantitative metabolic profiling through 1-dimensional ¹H-NMR analyses: application to plant genetics and functional genomics. 889
- Molnár I, Gáspár L, Sárvari E, Dulai S, Hoffman B, Molnár-Láng M, Galiba G
 Physiological and morphological responses to water stress in *Aegilops biuncialis* and *Triticum aestivum* genotypes with differing tolerance to drought. 1149
- Molnár-Láng M
 See Molnár I *et al.* 1149
- Montagu K D
 See Searson M J *et al.* 441
- Morell M K
 See Regina A *et al.* 591
- Morita S
 See Mohapatra P K *et al.* 131
- Moss G J
 See Schmidt S *et al.* 517
- Moyle R L
 See Winichayakul S *et al.* 63
 See Winichayakul S *et al.* 573
- Mudge S R
 See Rae A L *et al.* 141
- Mullineaux P M
 See Hernandez J A *et al.* 359
- Munné-Bosch S, Alegre L
 Die and let live: leaf senescence contributes to plant survival under drought stress. 203
- Munns R
 See Husain S *et al.* 1115
 See Lindsay M P *et al.* 1105

- Muralidharan V
See Subhash N *et al.* 709
- Murray B R
See Zeppel M J B *et al.* 461
- Murthy R
See Pegoraro E *et al.* 1137
- Musetti R
See Sanità di Toppi L *et al.* 329
- Nakamura Y
See Umemoto T *et al.* 671
- Nardini A
See Gascó A *et al.* 1161
- Neill S
See Desikan R *et al.* 913
- Ngo C
See Dodd I C *et al.* 903
- Nguyen N T
See Mohapatra P K *et al.* 131
- Nickerson M
See Callahan A M *et al.* 159
- Niinemets Ü, Tenhunen J D, Beyschlag W
Spatial and age-dependent modifications of photosynthetic capacity in four Mediterranean oak species. 1179
- Noble I R
See Roxburgh S H *et al.* 1043
- Noe S M, Giersch C
A simple dynamic model of leaf photosynthesis in oak leaves: Coupling leaf conductance and photosynthetic carbon fixation by a variable intracellular CO₂ pool. 1195
- Nogués S
See Lopes M S *et al.* 995
- Olano J M
See García-Plazaola J I *et al.* 815
- Orlic I
See Bhatia N P *et al.* 1061
- Osório J
See Azedo-Silva J *et al.* 611
- Ourry A
See Kim T-H *et al.* 847
- Outred H A
See Clark G T *et al.* 377
- Palta JA
See Liao M *et al.* 121
- Parton W G
See Roxburgh S H *et al.* 1043
- Paul M J
See Pritchard J *et al.* 1095
- Pegoraro E, Rey A, Bobich E G, Barron-Gafford G, Grieve K, Malhi Y, Murthy R
Effect of elevated CO₂ concentration and vapour pressure deficit on isoprene emission from leaves of *Populus deltoides* during drought. 1137
- Pérez-Torres E, García A, Dinamarca J, Alberdi M, Gutiérrez A, Gidekel M, Ivanov A G, Hüner N P A, Corcuera L J, Bravo L A
The role of photochemical quenching and antioxidants in photoprotection of *Deschampsia antarctica*. 731
- Pi Y
See Liao Z *et al.* 73
- Pickard B G
See LaMotte C E *et al.* 93, 109
- Poot P
See Wright I J *et al.* 551
- Pope J
See Rokitta M *et al.* 879
- Powles S B
See Yu Q *et al.* 247
- Prior L D
See Wright I J *et al.* 551
- Pritchard J
See Gould N *et al.* 391
- Pritchard J, Tomos A D, Farrar J F, Minchin P E H, Gould N, Paul M J, MacRae E, Ferrieri R A, Gray D W, Thorpe M R
Turgor, solute import and growth in maize roots treated with galactose. 1095
- Quaghebeur M, Rengel Z
Phosphate and arsenate interactions in the rhizosphere of canola (*Brassica napus*). 1085
- Quick W P
See Trevanion S J *et al.* 685
- Racchi M L
See Bagnoli F *et al.* 349
- Rae A L, Jarmey J M, Mudge S R, Smith F W
Over-expression of a high-affinity phosphate transporter in transgenic barley plants does not enhance phosphate uptake rates. 141
- Rahman S
See Regina A *et al.* 591
- Rampling L
See Regina A *et al.* 591
- Raschi A
See Marchi S *et al.* 181
- Raupach M R
See Roxburgh S H *et al.* 1043
- Rebetzke G J
See Ellis M H *et al.* 583
- Regina A, Kosar-Hashemi B, Li Z, Rampling L, Cmiel M, Gianibelli M C, Konik-Rose C, Larroque O, Rahman S, Morell M K
Multiple isoforms of starch branching enzyme-I in wheat: lack of the major SBE-I isoform does not alter starch genotype. 591
- Reich P B
See Wright I J *et al.* 551
- Reid R J, Liu J
Measurement of trace metal influx in plants: a case study with Co. 941
- Renaud C
See Moing A *et al.* 889
- Rengel Z
See Quaghebeur M *et al.* 1085
- Rey A
See Pegoraro E *et al.* 1137
- Richards R A
See Ellis M H *et al.* 583
- Riddle M J
See Runcie J W *et al.* 559
- Robin C
See Maurel M *et al.* 41
- Robinson S A
See Dunn J L *et al.* 195
- Rock C
See Desikan R *et al.* 913

- Roderick M L
See Roxburgh S H *et al.* 1043
- Rodier L
See Matheson S *et al.* 929
- Rokitta M, Medek D, Pope J, Critchley C
²³Na NMR microimaging: a tool for non-invasive monitoring of sodium distribution in living plants. 879
- Rolin D
See Moing A *et al.* 889
- Romera F J, Alcántara E
Ethylene involvement in the regulation of Fe-deficiency stress responses by Strategy I plants. 315
- Roxburgh S H, Barrett D J, Berry S L, Carter J O, Davies I D, Gifford R M, Kirschbaum M U F, McBeth B P, Noble I R, Parton W G, Raupach M R, Roderick M L
A critical overview of model estimates of net primary productivity for the Australian continent. 1043
- Rubinigg M, Wenisch J, Elzenga J T M, Stulen I
NaCl salinity affects lateral root development in *Plantago maritima*. 775
- Ruiz O A
See Cuevas J C *et al.* 921
- Rumberger A, Marschner P
2-Phenylethylisothiocyanate concentration and bacterial community composition in the rhizosphere of field-grown canola. 623
- Runcie J W, Riddle M J
Measuring variability in chlorophyll-fluorescence derived photosynthetic parameters *in situ* with a programmable multi-channel fluorometer. 559
- Russell-Smith J
See Williams R J *et al.* 415
- Ryan D J
See Winichayakul S *et al.* 573
- Sagi M
See Desikan R *et al.* 913
- Salekdeh G H
See Latha R *et al.* 1035
- Salleo S
See Gascó A *et al.* 1161
- Sanchez D H
See Cuevas J C *et al.* 921
- Sanchez Tames R
See Arigita L *et al.* 603
- Saneoka H
See Mohapatra P K *et al.* 131
- Sanità di Toppi L, Musetti R, Marabottini R, Corradi M G, Vattuone Z, Favali M A, Badiani M
Responses of *Xanthoria parietina* thalli to environmentally relevant concentrations of hexavalent chromium. 329
- Sárvári E
See Molnár I *et al.* 1149
- Sasaki T
See Ligaba A *et al.* 1075
- Sato Y
See Umemoto T *et al.* 671
- Schmidt S, Dennison W C, Moss G J, Stewart G R
Nitrogen ecophysiology of Heron Island, a subtropical coral cay of the Great Barrier Reef, Australia. 517
- Schulze E-D
See Wright I J *et al.* 551
- Scorza R
See Callahan A M *et al.* 159
- Searson M J, Thomas D S, Montagu K D, Conroy J P
Leaf water use efficiency differs between *Eucalyptus* seedlings from contrasting rainfall environments. 441
- Seleznyova A N
See Greer D H *et al.* 169
- Setter T L
See Goggin D E *et al.* 11
- Shabala S N
See Hariadi Y *et al.* 529, 539
- Shen H
See Ligaba A *et al.* 1075
- Shunmugasundaram M
See Mohapatra P K *et al.* 131
- Siegele R
See Bhatia N P *et al.* 1061
- Silk W K
See Boyer J S *et al.* 761
- Simonneau T
See Maurel M *et al.* 41
- Sinclair S J, Johnson R, Hamill J D
Analysis of wound-induced gene expression in *Nicotiana* species with contrasting alkaloid profiles. 721
- Skotnica J
See Gilbert M *et al.* 825
- Smith B N
See Matheson S *et al.* 929
- Smith F W
See Rae A L *et al.* 141
- Smith II J L, Hare J D
Spectral properties, gas exchange, and water potential of leaves of glandular and non-glandular trichome types in *Datura wrightii* (Solanaceae). 267
- Smith R J
See Medici L O *et al.* 1
- Soar C J, Speirs J, Maffei S M, Loveys B R
Gradients in stomatal conductance, xylem sap ABA and bulk leaf ABA along canes of *Vitis vinifera* cv. Shiraz: molecular and physiological studies investigating their source. 659
- Speirs J
See Soar C J *et al.* 659
- Spielmeyer W
See Ellis M H *et al.* 583
- St.Clair S B, Lynch J P
Photosynthetic and antioxidant enzyme responses of sugar maple and red maple seedlings to excess manganese in contrasting light environments. 1005
- Stange C, Matus J T, Elorza A, Arce-Johnson P
Identification and characterisation of a novel TMV resistance N gene homologue in *Nicotiana tabacum* plants. 149
- Stasyk O
See Bota J *et al.* 697
- Steppe K, Lemeur R
An experimental system for analysis of the dynamic sap-flow characteristics in young trees: results of a beech tree. 83
- Stewart G R
See Schmidt S *et al.* 517
- Stulen I
See Rubinigg M *et al.* 775
- Subhash N, Mohanan C N, Mallia R J, Muralidharan V
Quantification of stress adaptation by laser-induced fluorescence spectroscopy of plants exposed to engine exhaust emission and drought. 709
- Sun X
See Liao Z *et al.* 73

- Swaminathan M S
See Latha R *et al.* 1035
- Takanashi J
See Mohapatra P K *et al.* 131
- Tan F
See Liao Z *et al.* 73
- Tan Q
See Liao Z *et al.* 73
- Tang K
See Liao Z *et al.* 73
- Taylor D
See Ko K *et al.* 285
- Tcherkez G, Farquhar G D, Badeck F, Ghashghaie J
Theoretical considerations about carbon isotope distribution in glucose of C₃ plants. 857
- Tenhunen J D
See Niinemets Ü *et al.* 1179
- Theobald J C
See Mingo D M *et al.* 971
- Thomas D S
See Searson M J *et al.* 441
- Thorpe M R
See Gould N *et al.* 391, 987
See Pritchard J *et al.* 1095
- Tognetti R
See Marchi S *et al.* 181
- Tomos A D
See Pritchard J *et al.* 1095
- Toro A A
See Azevedo R A *et al.* 339
- Treanion S J, Castleden C K, Foyer C H, Furbank R T, Quick W P, Lunn J E
Regulation of sucrose-phosphate synthase in wheat (*Triticum aestivum*) leaves. 685
- Trotter C M
See Guo J *et al.* 255
- Turnbull C G N
See Dodd I C *et al.* 905
- Turnbull J D
See Dunn J L *et al.* 195
- Umemoto T, Aoki N, Lin H, Nakamura Y, Inouchi N, Sato Y, Yano M, Hirabayashi H, Maruyama S
Natural variation in rice *starch synthase IIa* affects enzyme and starch properties. 671
- Vaccari F P
See Marchi S *et al.* 181
- Varisi V A
See Azevedo R A *et al.* 339
- Vass I
See Barta C *et al.* 23
- Vattuone Z
See Sanità di Toppi L *et al.* 329
- Veneklaas E J
See Wright I J *et al.* 551
- Verhoeven A S
See Bachmann K M *et al.* 803
- Vidal J
See Moing A *et al.* 889
- von Caemmerer S
See Husain S *et al.* 1115
- Walsh K B
See Bhatia N P *et al.* 1061
- Wan C
See Li S *et al.* 369
- Wang P
See Liao Z *et al.* 73
- Wang Z-Y
See Chen L *et al.* 235
- Warren C R, Adams M A
What determines rates of photosynthesis per unit nitrogen in *Eucalyptus* seedlings? 1169
- Watson J M
See Brill E M *et al.* 217
- Watson J M, Brill E M
Eucalyptus grandis has at least two functional *SOCI*-like floral activator genes. 225
- Watson T L, Close D C, Davidson N J, Davies N W
Pigment dynamics during cold-induced photoinhibition of *Acacia melanoxylon*. 481
- Webber B I, Woodrow I E
Cassowary frugivory, seed defleshing and fruit fly infestation influence the transition from seed to seedling in the rare Australian rainforest tree, *Ryparosa* sp. nov. 1 (Achariaceae). 505
- Weingart I
See Gilbert M *et al.* 825
- Wenisch J
See Rubinigg M *et al.* 775
- Westoby M
See Wright I J *et al.* 551
- White P J
See Gould N *et al.* 391
- Wilhelm C
See Gilbert M *et al.* 825
- Williams R J, Hutley L B, Cook G D, Russell-Smith J, Edwards A, Chen X
Assessing the carbon sequestration potential of mesic savannas in the Northern Territory, Australia: approaches, uncertainties and potential impacts of fire. 415
- Wilson I W
See Kennedy G C *et al.* 295
- Winichayakul S, Moyle R L, Coupe S A, Davies K M, Farnden K J F
Analysis of the asparagus (*Asparagus officinalis*) asparagine synthetase gene promoter identifies evolutionary conserved *cis*-regulatory elements that mediate Suc-repression. 63
- Winichayakul S, Moyle R L, Ryan D J, Farnden K J F, Davies K M, Coupe S A
Distinct *cis*-elements in the *Asparagus officinalis* asparagine synthetase promoter respond to carbohydrate and senescence signals. 573
- Winter K
See Krause G H *et al.* 743
- Woitke M, Hartung W, Gimmler H, Heilmeyer H
Chlorophyll fluorescence of submerged and floating leaves of the aquatic resurrection plant *Chamaejasme intrepidus*. 53
- Woodrow I E
See King D J *et al.* 451
See Miller R E *et al.* 491
See Webber B I *et al.* 505
- Wright I J, Groom P K, Lamont B B, Poot P, Prior L D, Reich P B, Schulze E-D, Veneklaas E J, Westoby M
Leaf trait relationships in Australian plant species. 551

- Yamaguchi M
 See Ligaba A *et al.* 1075
- Yamamoto Y
 See Ligaba A *et al.* 1075
- Yan X
 See Liao H *et al.* 959
- Yano M
 See Umemoto T *et al.* 671
- Yu J-Q
 See Zhou Y-H *et al.* 1215
- Yu Q, Cairns A, Powles S B
 Paraquat resistance in a population of *Lolium rigidum*. 247
- Zapata C, Deleens E, Chaillou S, Magné C
 Mobilisation and distribution of starch and total N in two
 grapevine cultivars differing in their susceptibility to
 shedding. 1127
- Zeppel M J B, Murray B R, Barton C V M, Eamus D
 Seasonal responses of xylem sap velocity to VPD and solar
 radiation during drought in a stand of native trees in temperate
 Australia. 461
- Zhang Z
 See Li S *et al.* 369
- Zhou Y-H, Huang L-F, Du Y-S, Yu J-Q
 Greenhouse and field cucumber genotypes use different
 mechanisms to protect against dark chilling. 1215
- Zhu J, Lynch J P
 The contribution of lateral rooting to phosphorus acquisition
 efficiency in maize (*Zea mays*) seedlings. 949
- Zhu Y
 See Li S *et al.* 369
- Zimpfer J F
 See Barker D H *et al.* 781
- Zuo K
 See Liao Z *et al.* 73
- Zuther E
 See Clark G T *et al.* 377