

Author index

- Albracht, S.P.J., see Van Belzen, R. (974) 311
- Andersson, L.A., Loehr, T.M., Cotton, T.M., Simpson, D.J. and Smith, K.M.
Spectroscopic analysis of chlorophyll model complexes: methyl ester ClFe(III)pheophorbides (974) 163
- Babcock, G.T., see Ghanotakis, D.F. (974) 44
- Bader, K.P. and Schmid, G.H.
Photosynthetic and respiratory oxygen gas exchange measured by mass spectrometry in the filamentous cyanobacterium *Oscillatoria chalybea* in dependence on the nitrogen source in the growth medium (974) 303
- Berden, J.A., see Schoppink, P.J. (974) 192
- Bernaert, I., see Biermans, W. (974) 74
- Bickel-Sandkötter, S. and Gokus, M.
Characterization of nucleotide binding sites on membrane-bound chloroplast ATPase by modification with pyridoxal 5'-phosphate (974) 30
- Biermans, W., Bernaert, I., De Bie, M., Nijs, B. and Jacob, W.
Ultrastructural localisation of creatine kinase activity in the contact sites between inner and outer mitochondrial membranes of rat myocardium (974) 74
- Bizouarn, T., De Kouchkovsky, Y. and Haraux, F.
Photophosphorylation at variable ADP concentration but constant Δ pH in lettuce thylakoids. Effect of Δ pH and phosphate on the apparent affinity for ADP (974) 104
- Blubaugh, D.J., see Shopes, R.J. (974) 114
- Boekema, E.J., Dekker, J.P., Rögner, M., Witt, I., Witt, H.T. and Van Heel, M.
Refined analysis of the trimeric structure of the isolated Photosystem I complex from the thermophilic cyanobacterium *Synechococcus* sp. (974) 81
- Bose, S., see Renganathan, M. (974) 247
- Bowlby, N.R., see Ghanotakis, D.F. (974) 44
- Bragg, P.D. and Hou, C.
Reaction of 2-azido-ATP with β subunits in the F_1 -adenosine triphosphatase of *Escherichia coli* (974) 24
- Briantais, J.-M., see Hodges, M. (974) 289
- Brimble, S., see Bruce, D. (974) 66
- Bruce, D., Brimble, S. and Bryant, D.A.
State transitions in a phycobilisome-less mutant of the cyanobacterium *Synechococcus* sp. PCC 7002 (974) 66
- Bryant, D.A., see Bruce, D. (974) 66
- Camm, E.L. and Green, B.R.
The chlorophyll *ab* complex, CP29, is associated with the Photosystem II reaction centre core (974) 180
- Cornic, G., see Hodges, M. (974) 289
- Cotton, T.M., see Andersson, L.A. (974) 163
- Crielaard, W., Gabellini, N., Hellingwerf, K.J. and Konings, W.N.
Functional reconstitution of photosynthetic cyclic electron transfer in liposomes (974) 211
- De Bie, M., see Biermans, W. (974) 74
- Dekker, J.P., see Boekema, E.J. (974) 81
- Dekker, J.P., see Meyer, B. (974) 36
- De Kouchkovsky, Y., see Bizouarn, T. (974) 104
- Demetriou, D.M., see Ghanotakis, D.F. (974) 44
- De Paula, J.C., see Ghanotakis, D.F. (974) 44
- Duhe, R.J. and Selman, B.R.
Studies on the heterogeneity of the soluble chloroplast coupling factor 1: the formation of ϵ -deficient isozymes (974) 294
- Feezel, L.L., Gast, P., Smith, U.H. and Thurnauer, M.C.
Electron spin polarization of P^+-870Q^- observed in the reaction center protein of the photosynthetic bacterium *Rhodobacter sphaeroides* R-26. The effect of selective isotopic substitution at X- and Q-band microwave frequencies (974) 149
- Fuggi, A.
Short-term regulation of nitrate uptake by a 'pump and leak' mechanism in the acidophilic nonvacuolated alga. *Cyanidium caldarium* (974) 141
- Gabellini, N., Gao, Z., Oesterheld, D., Venturoli, G. and Melandri, B.A.
Reconstitution of cyclic electron transport and photophosphorylation by incorporation of the reaction center, cytochrome *b/c_1* complex and ATP synthase from *Rhodobacter capsulatus* into ubiquinone-10/phospholipid vesicles (974) 202
- Gabellini, N., see Crielaard, W. (974) 211
- Gao, Z., see Gabellini, N. (974) 202
- Gast, P., see Feezel, L.L. (974) 149
- Ghanotakis, D.F., De Paula, J.C., Demetriou, D.M., Bowlby, N.R., Petersen, J., Babcock, G.T. and Yocum, C.F.
Isolation and characterization of the 47 kDa protein and the D1-D2-cytochrome *b*-559 complex (974) 44
- Gokus, M., see Bickel-Sandkötter, S. (974) 30
- Govindjee, , see Shopes, R.J. (974) 114
- Green, B.R., see Camm, E.L. (974) 180
- Greenbaum, N.L., see Mauzerall, D. (974) 119
- Haraux, F., see Bizouarn, T. (974) 104
- Harris, D.A.
Azide as a probe of co-operative interactions in the mitochondrial F_1 -ATPase (974) 156
- Hassinen, I.E., see Kiviluoma, K.T. (974) 274
- Hassinen, I.E., see Vuokila, P.T. (974) 219
- Hauska, G., see Nitschke, W. (974) 223
- Hellingwerf, K.J., see Crielaard, W. (974) 211
- Hemrika, W., see Schoppink, P.J. (974) 192
- Hodges, M., Cornic, G. and Briantais, J.-M.
Chlorophyll fluorescence from spinach leaves: resolution of non-photochemical quenching (974) 289
- Hoff, A.J., see Lous, E.J. (974) 88
- Hou, C., see Bragg, P.D. (974) 24
- Inoue, Y., see Seibert, M. (974) 185
- Islam, K.
GTP-induced chloroplast membrane protein phosphorylation and Photosystem II fluorescence changes: evidence for multiple protein kinase activities (974) 261
- Islam, K.
Thylakoid protein phosphorylation and associated Photosystem II fluorescence changes: a study with the ATP analogue adenosine-5-O-thiotriphosphate (ATP- γ -S) (974) 267

- Jacob, W., see Biermans, W. (974) 74
- Kiviluoma, K.T., Peuhkurinen, K.J. and Hassinen, I.E.
Adenine nucleotide transport and adenosine production in isolated rat heart mitochondria during acetate metabolism (974) 274
- Konings, W.N., see Crielaard, W. (974) 211
- Krämer, R. and Palmieri, F.
Molecular aspects of isolated and reconstituted carrier proteins from animal mitochondria (974) 1
- Loehr, T.M., see Andersson, L.A. (974) 163
- Lous, E.J. and Hoff, A.J.
Isotropic and linear dichroic triplet-minus-singlet absorbance difference spectra of two carotenoid-containing bacterial photosynthetic reaction centers in the temperature range 10–288 K. An analysis of bacteriochlorophyll-carotenoid triplet transfer (974) 88
- Maier, R.J., see O'Brian, M.R. (974) 229
- Mauzerall, D. and Greenbaum, N.L.
The absolute size of a photosynthetic unit (974) 119
- Melandri, B.A., see Gabellini, N. (974) 202
- Meyer, B., Schlodder, E., Dekker, J.P. and Witt, H.T.
 O_2 evolution and Chl a_{880}^+ (P-680⁺) nanosecond reduction kinetics in single flashes as a function of pH (974) 36
- Nijs, B., see Biermans, W. (974) 74
- Nitschke, W., Hauska, G. and Rutherford, A.W.
The inhibition of quinol oxidation by stigmatellin is similar in cytochrome bc_1 and b_6f complexes (974) 223
- O'Brian, M.R. and Maier, R.J.
Molecular aspects of the energetics of nitrogen fixation in *Rhizobium*-legume symbioses (974) 229
- Oosterhelt, D., see Gabellini, N. (974) 202
- Palmieri, F., see Krämer, R. (974) 1
- Petersen, J., see Ghanotakis, D.F. (974) 44
- Peuhkurinen, K.J., see Kiviluoma, K.T. (974) 274
- Pick, U., see Weiss, M. (974) 254
- Quick, P., Scheibe, R. and Stitt, M.
Use of tentoxin and nigericin to investigate the possible contribution of ΔpH to energy dissipation and the control of electron transport in spinach leaves (974) 282
- Renganathan, M. and Bose, S.
Inhibition of primary photochemistry of Photosystem II by copper in isolated pea chloroplasts (974) 247
- Rögner, M., see Boekema, E.J. (974) 81
- Rutherford, A.W., see Nitschke, W. (974) 223
- Scheibe, R., see Quick, P. (974) 282
- Schlodder, E., see Meyer, B. (974) 36
- Schmid, G.H., see Bader, K.P. (974) 303
- Schoppink, P.J., Hemrika, W. and Berden, J.A.
The effect of deletion of the genes encoding the 40 kDa subunit II or the 17 kDa subunit VI on the steady-state kinetics of yeast ubiquinol-cytochrome-*c* oxidoreductase (974) 192
- Sebban, P. and Wraight, C.A.
Heterogeneity of the $P^+Q_A^-$ recombination kinetics in reaction centers from *Rhodospseudomonas viridis*: the effects of pH and temperature (974) 54
- Seibert, M., Tamura, N. and Inoue, Y.
Lack of photoactivation capacity in *Scenedesmus obliquus* LF-1 results from loss of half the high-affinity manganese-binding site. Relationship to the unprocessed D1 protein (974) 185
- Sekler, I., see Weiss, M. (974) 254
- Selman, B.R., see Duhe, R.J. (974) 294
- Shopes, R.J., Blubaugh, D.J., Wraight, C.A. and Govindjee,
Absence of a bicarbonate-depletion effect in electron transfer between quinones in chromatophores and reaction centers of *Rhodobacter sphaeroides* (974) 114
- Simpson, D.J., see Andersson, L.A. (974) 163
- Smith, K.M., see Andersson, L.A. (974) 163
- Smith, U.H., see Feezel, L.L. (974) 149
- Stitt, M., see Quick, P. (974) 282
- Tamura, N., see Seibert, M. (974) 185
- Thurnauer, M.C., see Feezel, L.L. (974) 149
- Van Belzen, R. and Albracht, S.P.J.
The pathway of electron transfer in NADH:Q oxidoreductase (974) 311
- Van Heel, M., see Boekema, E.J. (974) 81
- Venturoli, G., see Gabellini, N. (974) 202
- Vuokila, P.T. and Hassinen, I.E.
DCCD sensitivity of electron and proton transfer by NADH: ubiquinone oxidoreductase in bovine heart submitochondrial particles – a thermodynamic approach (974) 219
- Weiss, M., Sekler, I. and Pick, U.
Characterization of soluble and membrane-bound forms of a vanadate-sensitive ATPase from plasma membranes of the halotolerant alga *Dunaliella salina* (974) 254
- Witt, H.T., see Boekema, E.J. (974) 81
- Witt, H.T., see Meyer, B. (974) 36
- Witt, I., see Boekema, E.J. (974) 81
- Wraight, C.A., see Sebban, P. (974) 54
- Wraight, C.A., see Shopes, R.J. (974) 114
- Yocum, C.F., see Ghanotakis, D.F. (974) 44