

AUTHOR INDEX

- Adachi, O., see Matsushita, K. (894) 304
- Ameyama, M., see Matsushita, K. (894) 304
- Anderson, G.P., Sanderson, D.G., Lee, C.H., Durell, S., Anderson, L.B. and Gross, E.L.
The effect of ethylenediamine chemical modification of plastocyanin on the rate of cytochrome *f* oxidation and P-700⁺ reduction (894) 386
- Anderson, G.P., see Molnar, S.A. (894) 327
- Anderson, J.M., see Larsson, U.K. (894) 69
- Anderson, L.B., see Anderson, G.P. (894) 386
- Andersson, B., see Larsson, U.K. (894) 59
- Andersson, B., see Larsson, U.K. (894) 69
- Azzi, A., see Szewczyk, A. (894) 252
- Bardin, A.-M., see Hiller, R.G. (894) 365
- Bendall, D.S., see Rolfe, S.A. (894) 434
- Benz, R., see De Pinto, V. (894) 109
- Berden, J.A., see Nieboer, P. (894) 277
- Berden, J.A., see Persson, B. (894) 239
- Berger, G., see Lutz, M. (894) 423
- Bergström, H., see Van Grondelle, R. (894) 313
- Berry, J.A., see Weis, E. (894) 198
- Biggins, J., see Sétif, P. (894) 146
- Blankenship, R.E., see Nozawa, T. (894) 468
- Bottin, H., Sétif, P. and Mathis, P.
Study of the PS I acceptor side by double and triple flash experiments (894) 39
- Boussac, A., see Hodges, M. (894) 138
- Bragg, P.D. and Hou, C.
Ligand-induced conformational changes in the *Escherichia coli* F₁ adenosine triphosphatase probed by trypsin digestion (894) 127
- Bragg, P.D., see Sedgwick, E.G. (894) 499
- Briantais, J.-M., see Hodges, M. (894) 138
- Broger, C., see Szewczyk, A. (894) 252
- Brzezinski, P. and Malmström, B.G.
The mechanism of electron gating in proton pumping cytochrome *c* oxidase: the effect of pH and temperature on internal electron transfer (894) 29
- Canvin, D.T., see Miller, A.G. (894) 407
- Capaldi, R.A., see Kim, S.J. (894) 270
- Chylla, R.A., Garab, G. and Whitmarsh, J.
Evidence for slow turnover in a fraction of Photosystem II complexes in thylakoid membranes (894) 562
- Coleman, W.J., Govindjee, and Gutowsky, H.S.
³⁵Cl-NMR measurement of chloride binding to the oxygen-evolving complex of spinach Photosystem II (894) 443
- Coleman, W.J., Govindjee, and Gutowsky, H.S.
The location of the chloride binding sites in the oxygen-evolving complex of spinach Photosystem II (894) 453
- Cox, G.B., see Lightowers, R.N. (894) 399
- Critchley, C., see Preston, C. (894) 477
- Cunningham, C.C., see Spach, P.I. (894) 460
- Dadák, V., see Kučera, I. (894) 120
- Daldal, F., see Prince, R.C. (894) 370
- Dekker, H.L., see Hakvoort, T.B.M. (894) 347
- Demetriou, C., see Nugent, J.H.A. (894) 534
- Demura, M., Kamo, N. and Kobatake, Y.
Mitochondrial membrane potential estimated with the correction of probe binding (894) 355
- De Pinto, V., Ludwig, O., Krause, J., Benz, R. and Palmieri, F.
Porin pores of mitochondrial outer membranes from high and low eukaryotic cells: biochemical and biophysical characterization (894) 109
- Droppa, M., see Masojidek, J. (894) 49
- Droupadi, P.R. and Krishnan, V.
Singlet quenching of chlorophyll *a* by nitroaromatics. Effect of solvents on the electron transfer from excited singlet of chlorophyll *a* to nitroaromatic acceptors (894) 284
- Durell, S., see Anderson, G.P. (894) 386
- Duval, J.C., see Lichtlé, C. (894) 76
- Evans, M.C.W.
Evidence for two Q_a-like quinone binding sites in the reaction centre of *Rhodospseudomonas viridis* (894) 524
- Evans, M.C.W., see Mansfield, R.W. (894) 515
- Farkas, D.L., see Symons, M. (894) 578
- Finel, M.
Studies on the oligomeric state of isolated cytochrome oxidase using cross-linking reagents (894) 174
- Foyer, C.H., Furbank, R.T. and Walker, D.A.
Interactions between ribulose-1,5-bisphosphate carboxylase and stromal metabolites. I. Modulation of enzyme activity by Benson-Calvin cycle intermediates (894) 157
- Foyer, C.H., see Furbank, R.T. (894) 165
- Foyer, C.H., see Furbank, R.T. (894) 552
- Fujita, T., see Miyoshi, H. (894) 339
- Fukada, T., see Nozawa, T. (894) 468
- Furbank, R.T. and Horton, P.
Regulation of photosynthesis in isolated barley protoplasts: the contribution of cyclic photophosphorylation (894) 332
- Furbank, R.T., Foyer, C.H. and Walker, D.A.
Interactions between ribulose-1,5-bisphosphate carboxylase and stromal metabolites. II. Corroboration of the role of this enzyme as a metabolite buffer (894) 165

- Furbank, R.T., Foyer, C.H. and Walker, D.A.
Regulation of photosynthesis in isolated spinach chloroplasts during orthophosphate limitation (894) 552
- Furbank, R.T., see Foyer, C.H. (894) 157
- Garab, G., see Chylla, R.A. (894) 562
- Garcia, D., Parot, P. and Verméglio, A.
Purification and characterization of the photochemical reaction center of the thermophilic purple sulfur bacterium *Chromatium tepidum* (894) 379
- Gibson, F., see Lightowlers, R.N. (894) 399
- Gillbro, T., see Van Grondelle, R. (894) 313
- Govindjee, , see Coleman, W.J. (894) 443
- Govindjee, , see Coleman, W.J. (894) 453
- Gross, E.L., see Anderson, G.P. (894) 386
- Gross, E.L., see Molnar, S.A. (894) 327
- Guo, Y.-j., Zhang, Y., Liu, Y.-x. and Lin, Z.-h.
Effects of some alcohols on the conformation of mitochondrial H⁺-ATPase complex and F₁-ATPase from pig heart (894) 11
- Gutowsky, H.S., see Coleman, W.J. (894) 443
- Gutowsky, H.S., see Coleman, W.J. (894) 453
- Hakvoort, T.B.M., Moolenaar, K., Lankvelt, A.H.M., Sinjorgo, K.M.C., Dekker, H.L. and Muijsers, A.O.
Separation, stability and kinetics of monomeric and dimeric bovine heart cytochrome *c* oxidase (894) 347
- Hartog, A.F., see Nieboer, P. (894) 277
- Hatano, M., see Nozawa, T. (894) 468
- Hatch, L., see Lightowlers, R.N. (894) 399
- Hertsens, R.C. and Jacob, W.A.
Freeze-fracture study of heart mitochondria in the condensed or orthodox state (894) 507
- Hiller, R.G., Bardin, A.-M. and Nabderyk, E.
The secondary structure content of pigment-protein complexes from the thylakoids of two Chromophyte algae (894) 365
- Hodges, M., Boussac, A. and Briantais, J.-M.
Thylakoid membrane protein phosphorylation modifies the equilibrium between Photosystem II quinone electron acceptors (894) 138
- Horton, P., see Furbank, R.T. (894) 332
- Horváth, G., see Masojidek, J. (894) 49
- Hou, C., see Bragg, P.D. (894) 127
- Howitt, S.M., see Lightowlers, R.N. (894) 399
- Ikegami, I., Sétif, P. and Mathis, P.
Absorption studies of Photosystem I photochemistry in the absence of vitamin K-1 (894) 414
- Ikegami, I., see Sétif, P. (894) 146
- Inoue, Y., see Koike, H. (894) 573
- Jacob, W.A., see Hertsens, R.C. (894) 507
- Jeffrey, S.W. and Wright, S.W.
A new spectrally distinct component in preparations of chlorophyll *c* from the micro-alga *Emiliania huxleyi* (Prymnesiophyceae) (894) 180
- Kamo, N., see Demura, M. (894) 355
- Kämpf, C., Wynn, R.M., Shaw, R.W. and Knaff, D.B.
The electron transfer chain of aerobically grown *Rhodospseudomonas viridis* (894) 228
- Kayed, A., see Renger, G. (894) 261
- Khomutov, G.B., see Konstantinov, A.A. (894) 1
- Kim, S.J., Lee, K.O., Takamiya, S. and Capaldi, R.A.
Mitochondrial myopathy involving ubiquinol-cytochrome *c* oxidoreductase (complex III) identified by immunoelectron microscopy (894) 270
- Knaff, D.B., see Kämpf, C. (894) 228
- Knox, B.E., see Tomita, M. (894) 16
- Kobatake, Y., see Demura, M. (894) 355
- Koike, H. and Inoue, Y.
A low-temperature-sensitive intermediate state between S₂ and S₃ in photosynthetic water oxidation deduced by means of thermoluminescence measurements (894) 573
- Konstantinov, A.A., Peskin, A.V., Popova, E.Y., Khomutov, G.B. and Ruuge, E.K.
Superoxide generation by the respiratory chain of tumor mitochondria (894) 1
- Kozák, L., see Kučera, I. (894) 120
- Krause, J., see De Pinto, V. (894) 109
- Krishnan, V., see Droupadi, P.R. (894) 284
- Kučera, I., Kozák, L. and Dadák, V.
Aerobic dissimilatory reduction of nitrite by cells of *Paracoccus denitrificans*: the role of nitric oxide (894) 120
- Lankvelt, A.H.M., see Hakvoort, T.B.M. (894) 347
- Larsson, U.K., Anderson, J.M. and Andersson, B.
Variations in the relative content of the peripheral and inner light-harvesting chlorophyll *a/b*-protein complex (LHC II) subpopulations during thylakoid light adaptation and development (894) 69
- Larsson, U.K., Sundby, C. and Andersson, B.
Characterization of two different subpopulations of spinach light-harvesting chlorophyll *a/b*-protein complex (LHC II): polypeptide composition, phosphorylation pattern and association with Photosystem II (894) 59
- Lavergne, J.
Optical-difference spectra of the S-state transitions in the photosynthetic oxygen-evolving complex (894) 91
- Lee, C.H., see Anderson, G.P. (894) 386
- Lee, K.O., see Kim, S.J. (894) 270
- Lemoine, Y., see Lichtlé, C. (894) 76
- Lichtlé, C., Duval, J.C. and Lemoine, Y.
Comparative biochemical, functional and ultrastructural studies of photosystem particles from a Cryptophyceae: *Cryptomonas rufescens*; isolation of an active phycoerythrin particle (894) 76
- Lightowlers, R.N., Howitt, S.M., Hatch, L., Gibson, F. and Cox, G.B.
The proton pore in the *Escherichia coli* F₀F₁-ATPase: a requirement for arginine at position 210 of the *a*-subunit (894) 399
- Lin, Z.-h., see Guo, Y.-j. (894) 11
- Liu, Y.-x., see Guo, Y.-j. (894) 11
- Lockett, C.J., see Nugent, J.H.A. (894) 534

- Ludwig, O., see De Pinto, V. (894) 109
- Lutz, M., Szponarski, W., Berger, G., Robert, B. and Neumann, J.-M.
The stereoisomerism of bacterial, reaction-center-bound carotenoids revisited: an electronic absorption, resonance Raman and $^1\text{H-NMR}$ study (894) 423
- McManus, J.D., see Nozawa, T. (894) 468
- Malkin, S., see Symons, M. (894) 578
- Malmström, B.G., see Brzezinski, P. (894) 29
- Mansfield, R.W., Nugent, J.H.A. and Evans, M.C.W.
ESR characteristics of Photosystem I in deuterium oxide: further evidence that electron acceptor A_1 is a quinone (894) 515
- Masojidek, J., Droppa, M. and Horváth, G.
Organization of the photosynthetic membrane in maize mesophyll and bundle sheath chloroplasts studied by two-dimensional gel electrophoresis (894) 49
- Mathis, P., see Bottin, H. (894) 39
- Mathis, P., see Ikegami, I. (894) 414
- Matsushita, K., Shinagawa, E., Adachi, O. and Ameyama, M.
Purification, characterization and reconstitution of cytochrome *o*-type oxidase from *Gluconobacter suboxydans* (894) 304
- Miller, A.G. and Calvin, D.T.
The quenching of chlorophyll *a* fluorescence as a consequence of the transport of inorganic carbon by the cyanobacterium *Synechococcus* UTEX 625 (894) 407
- Mills, J.D., see Noctor, G. (894) 295
- Mitchell, P., see Moody, A.J. (894) 209
- Mitchell, R., see Moody, A.J. (894) 209
- Miyoshi, H. and Fujita, T.
Quantitative analyses of uncoupling activity of SF6847 (2,6-di-*t*-butyl-4-(2,2-dicyanovinyl)phenol) and its analogs with spinach chloroplasts (894) 339
- Molnar, S.A., Anderson, G.P. and Gross, E.L.
The purification of cytochrome *f* and plastocyanin using affinity chromatography (894) 327
- Moody, A.J., Mitchell, R., West, I.C. and Mitchell, P.
Protonmotive stoichiometry of rat liver cytochrome *c* oxidase: determination by a new rate/pulse method (894) 209
- Moolenaar, K., see Hakvoort, T.B.M. (894) 347
- Moss, D.A. and Rich, P.R.
The effect of pre-reduction of cytochrome *b*-563 on the electron-transfer reactions of the cytochrome *bf* complex in higher plant chloroplasts (894) 189
- Muijsers, A.O., see Hakvoort, T.B.M. (894) 347
- Nabedryk, E., see Hiller, R.G. (894) 365
- Nałęcz, M.J., see Szewczyk, A. (894) 252
- Neumann, J.-M., see Lutz, M. (894) 423
- Nieboer, P., Hartog, A.F. and Berden, J.A.
Dissociation-reconstitution experiments support the presence of two catalytic β -subunits in mitochondrial F_1 (894) 277
- Noctor, G. and Mills, J.D.
Control of CO_2 fixation during the induction period. The role of thiol-mediated enzyme activation in the alga, *Dunaliella* (894) 295
- Nozawa, T., Trost, J.T., Fukada, T., Hatano, M., McManus, J.D. and Blankenship, R.E.
Properties of the reaction center of the thermophilic purple photosynthetic bacterium *Chromatium tepidum* (894) 468
- Nugent, J.H.A., Demetriou, C. and Lockett, C.J.
Electron donation in Photosystem II (894) 534
- Nugent, J.H.A., see Mansfield, R.W. (894) 515
- Pace, R.J., see Preston, C. (894) 477
- Palmieri, F., see De Pinto, V. (894) 109
- Parot, P., see Garcia, D. (894) 379
- Peltier, G. and Ravenel, J.
Oxygen photoreduction and variable fluorescence during a dark-to-light transition in *Chlorella pyrenoidosa* (894) 543
- Persson, B., Berden, J.A., Rydström, J. and Van Dam, K.
ATP-driven transhydrogenase provides an example of delocalized chemiosmotic coupling in reconstituted vesicles and in submitochondrial particles (894) 239
- Peskin, A.V., see Konstantinov, A.A. (894) 1
- Popova, E.Y., see Konstantinov, A.A. (894) 1
- Preston, C., Pace, R.J. and Critchley, C.
Fluoride inhibition of oxygen evolution; new evidence from $^{35}\text{Cl-NMR}$ measurements (894) 477
- Prince, R.C. and Daldal, F.
Physiological electron donors to the photochemical reaction center of *Rhodobacter capsulatus* (894) 370
- Ravenel, J., see Peltier, G. (894) 543
- Renger, G. and Kayed, A.
Fluorescence decline as a function of redox potential and actinic light intensity in spinach thylakoids (894) 261
- Rich, P.R., see Moss, D.A. (894) 189
- Robert, B., see Lutz, M. (894) 423
- Rolfe, S.A., Sanguansermisri, M. and Bendall, D.S.
Cytochrome *b*-560, a new component of thylakoid membranes (894) 434
- Ruuge, E.K., see Konstantinov, A.A. (894) 1
- Rydström, J., see Persson, B. (894) 239
- Sanderson, D.G., see Anderson, G.P. (894) 386
- Sanguansermisri, M., see Rolfe, S.A. (894) 434
- Schiff, J.A., see Spano, A.J. (894) 484
- Sedgwick, E.G. and Bragg, P.D.
Distinct phases of the fluorescence response of the lipophilic probe *N*-phenyl-1-naphthylamine in intact cells and membrane vesicles of *Escherichia coli* (894) 499
- Sétif, P., Ikegami, I. and Biggins, J.
Light-induced charge separation in Photosystem I at low temperature is not influenced by vitamin K-1 (894) 146
- Sétif, P., see Bottin, H. (894) 39
- Sétif, P., see Ikegami, I. (894) 414
- Shaw, R.W., see Kämpf, C. (894) 228
- Shinagawa, E., see Matsushita, K. (894) 304
- Sinjorgo, K.M.C., see Hakvoort, T.B.M. (894) 347
- Spach, P.I. and Cunningham, C.C.
Control of state 3 respiration in liver mitochondria from rats subjected to chronic ethanol consumption (894) 460

- Spano, A.J. and Schiff, J.A.
Purification, properties, and cellular localization of *Euglena* ferredoxin-NADP reductase (894) 484
- Sundby, C., see Larsson, U.K. (894) 59
- Sundström, V., see Van Grondelle, R. (894) 313
- Symons, M., Malkin, S. and Farkas, D.L.
Electric-field-induced luminescence emission spectra of Photosystem I and Photosystem II from chloroplasts (894) 578
- Szewczyk, A., Nałęcz, M.J., Broger, C., Wojtczak, L. and Azzi, A.
Purification by affinity chromatography of the dicarboxylate carrier from bovine heart mitochondria (894) 252
- Szponarski, W., see Lutz, M. (894) 423
- Takamiya, S., see Kim, S.J. (894) 270
- Tomita, M., Knox, B.E. and Tsong, T.Y.
Thermal inactivation of electron-transport functions and F_0F_1 -ATPase activities (894) 16
- Trost, J.T., see Nozawa, T. (894) 468
- Tsong, T.Y., see Tomita, M. (894) 16
- Van Dam, K., see Persson, B. (894) 239
- Van Grondelle, R., Bergström, H., Sundström, V. and Gillbro, T.
Energy transfer within the bacteriochlorophyll antenna of purple bacteria at 77 K, studied by picosecond absorption recovery (894) 313
- Verméglio, A., see Garcia, D. (894) 379
- Walker, D.A., see Foyer, C.H. (894) 157
- Walker, D.A., see Furbank, R.T. (894) 165
- Walker, D.A., see Furbank, R.T. (894) 552
- Weis, E. and Berry, J.A.
Quantum efficiency of Photosystem II in relation to 'energy'-dependent quenching of chlorophyll fluorescence (894) 198
- West, I.C., see Moody, A.J. (894) 209
- Whitmarsh, J., see Chylla, R.A. (894) 562
- Wojtczak, L., see Szewczyk, A. (894) 252
- Wright, S.W., see Jeffrey, S.W. (894) 180
- Wynn, R.M., see Kämpf, C. (894) 228
- Zhang, Y., see Guo, Y.-j. (894) 11