

Author index

- Adcock, M.D., see Doncaster, H.D. (973) 176
- Åkerlund, H.-E., see Sundblad, L.-G. (973) 47
- Alpes, I., Scherer, S. and Böger, P.
The respiratory NADH dehydrogenase of the cyanobacterium *Anabaena variabilis*: purification and characterization (973) 41
- Amesz, J., see Smit, H.W.J. (973) 212
- Anderson, J.M., see Chow, W.S. (973) 105
- Andréasson, L.-E.
Is nitrogen liganded to manganese in the photosynthetic oxygen-evolving system? EPR studies after isotopic replacement with ^{15}N (973) 465
- Ångström, J., see Wydrzynski, T. (973) 23
- Awayda, M.S., see Kidder III, G.W. (973) 59
- Barber, J., see Gounaris, K. (973) 296
- Baribeau, J., see Pande, C. (973) 257
- Bendall, D.S., see Rolfe, S.A. (973) 220
- Bobyleva-Guarriero, V., see Di Lisa, F. (973) 185
- Böger, P., see Alpes, I. (973) 41
- Bolgiano, B., Smith, L. and Davies, H.C.
Electron transport reactions in a cytochrome *c*-deficient mutant of *Paracoccus denitrificans* (973) 227
- Boucher, F., see Pande, C. (973) 257
- Breton, J. and Nabedryk, E.
Light-induced polarized Fourier transform infrared spectroscopy of bacteriorhodopsin - a study of the M_{412} intermediate by photoselection (973) 13
- Brimble, S. and Bruce, D.
Pigment orientation and excitation energy transfer in *Porphyridium cruentum* and *Synechococcus* sp. PCC 6301 cross-linked in light state 1 and light state 2 with glutaraldehyde (973) 315
- Browne, H.M., see McCormack, J.G. (973) 420
- Bruce, D., see Brimble, S. (973) 315
- Callender, R., see Pande, C. (973) 257
- Čénas, N.K., Rakauskienė, G.A. and Kulys, J.J.
One- and two-electron reduction of quinones by glutathione reductase (973) 399
- Chapman, D.J., see Gounaris, K. (973) 296
- Che, C.M., see Cho, K.C. (973) 53
- Cho, K.C., Chu, W.F., Choy, C.L. and Che, C.M.
Electron transfer between cytochrome *c* and metal hexacyanide complexes. Effect of thermodynamic driving force on the electron transfer rate (973) 53
- Chow, W.S., Hope, A.B. and Anderson, J.M.
Oxygen per flash from leaf disks quantifies Photosystem II (973) 105
- Choy, C.L., see Cho, K.C. (973) 53
- Chu, W.F., see Cho, K.C. (973) 53
- Crielaard, W., Hellingwerf, K.J. and Konings, W.N.
Reconstitution of electrochromically active pigment-protein complexes from *Rhodobacter sphaeroides* into liposomes (973) 205
- Davies, H.C., see Bolgiano, B. (973) 227
- Dawes, N.J., see McCormack, J.G. (973) 420
- De Meis, L.
Role of water in the energy of hydrolysis of phosphate compounds - energy transduction in biological membranes (973) 333
- De Smet, M., see Slooten, L. (973) 272
- Di Lisa, F., Menabò, R., Miotto, G., Bobyleva-Guarriero, V. and Siliprandi, N.
 Ca^{2+} -mediated action of long-chain acyl-CoA on liver mitochondria energy-linked processes (973) 185
- Doncaster, H.D., Adcock, M.D. and Leegood, R.C.
Regulation of photosynthesis in leaves of C_4 plants following a transition from high to low light (973) 176
- Drachev, L.A., Kaurov, B.S., Mamedov, M.D., Mulikidjanian, A.Y., Semenov, A.Y., Shinkarev, V.P., Skulachev, V.P. and Verkhovsky, M.I.
Flash-induced electrogenic events in the photosynthetic reaction center and b_6 complexes of *Rhodobacter sphaeroides* chromatophores (973) 189
- Droppa, M., see Rózsa, Z. (973) 350
- Enami, I., Miyaoka, T., Mochizuki, Y., Shen, J.-R., Satoh, K. and Katoh, S.
Nearest neighbor relationships among constituent proteins of oxygen-evolving Photosystem II membranes: binding and function of the extrinsic 33 kDa protein (973) 35
- Evelo, R.G., Styring, S., Rutherford, A.W. and Hoff, A.J.
EPR relaxation measurements of Photosystem II reaction centers: influence of S-state oxidation and temperature (973) 428
- Fabian, M. and Malmström, B.G.
The effect of pH changes on the optical spectrum of oxidised cytochrome oxidase (973) 414
- Feil, R., see Quick, P. (973) 263
- Feil, R., see Stitt, M. (973) 241
- Ferguson, S.J., see McEwan, A.G. (973) 308
- Fonyó, A., see Ligeti, E. (973) 170
- Frank, H.A., see Taremi, S.S. (973) 86
- Freiberg, A., Godik, V.I., Pullerits, T. and Timpman, K.
Picosecond dynamics of directed excitation transfer in spectrally heterogeneous light-harvesting antenna of purple bacteria (973) 93
- Godik, V.I., see Freiberg, A. (973) 93
- Golbeck, J.H., see Parrett, K.G. (973) 324
- Gounaris, K., Chapman, D.J. and Barber, J.
Isolation and characterisation of a D1/D2/cytochrome *b*-559 complex from *Synechocystis* 6803 (973) 296
- Griebenow, K. and Holzwarth, A.R.
Pigment organization and energy transfer in green bacteria.1. Isolation of native chlorosomes free of bound bacteriochlorophyll *a* from *Chloroflexus aurantiacus* by gel-electrophoretic filtration (973) 235
- Guard-Friar, D., Hanzlik, C. and MacColl, R.
Phycocerythrin 566 - a fluorescence study (973) 118
- Gülzow, M., see Rehm, A.M. (973) 131
- Halestrap, A.P.
The regulation of the matrix volume of mammalian mitochondria in vivo and in vitro and its role in the control of mitochondrial metabolism (973) 355
- Hanzlik, C., see Guard-Friar, D. (973) 118
- Hellingwerf, K.J., see Crielaard, W. (973) 205
- Ho, K.-K., see Tan, S. (973) 111

- Hoff, A.J., see Evelo, R.G. (1973) 428
 Holzwarth, A.R., see Griebenow, K. (1973) 235
 Hope, A.B., see Chow, W.S. (1973) 105
 Horváth, G., see Rózsa, Z. (1973) 350
 Hudig, H., see McEwan, A.G. (1973) 308
 Hunter, C.N., Van Grondelle, R. and Van Dorssen, R.J.
 The construction and properties of a mutant of *Rhodobacter sphaeroides* with the LH1 antenna as the sole pigment protein (1973) 383
- Ikeuchi, M., see Tamura, N. (1973) 281
 Inagaki, K., see Sugio, T. (1973) 250
 Inoue, Y., see Inui, T. (1973) 147
 Inoue, Y., see Ono, T.-a. (1973) 443
 Inoue, Y., see Tamura, N. (1973) 281
 Inui, T., Kawamori, A., Kuroda, G., Ono, T.-a. and Inoue, Y.
 EPR study of charge recombination via D^+ in the S_2 state of oxygen evolving Photosystem II (1973) 147
- Jackson, J.B., see McEwan, A.G. (1973) 308
 Jagendorf, A.T., see Larson, E.M. (1973) 67
 Jagendorf, A.T., see Larson, E.M. (1973) 78
- Kamiya, N., see Tanisho, S. (1973) 1
 Karukstis, K.K. and Monell, C.R.
 Reversal of quinone-induced chlorophyll fluorescence quenching (1973) 124
 Katagiri, T., see Sugio, T. (1973) 250
 Katoh, S., see Enami, I. (1973) 35
 Katoh, T., see Mimuro, M. (1973) 153
 Kaurov, B.S., see Drachev, L.A. (1973) 189
 Kawamori, A., see Inui, T. (1973) 147
 Kidder III, G.W. and Awayda, M.S.
 Effects of azide on gastric mucose (1973) 59
 Kim, H., see Park, D.-G. (1973) 19
 Kim, K., see Park, D.-G. (1973) 19
 Klaassen, H.E., see Vos, M.H. (1973) 163
 Konings, W.N., see Crielgaard, W. (1973) 205
 Konstantinov, A., see Vygodina, T. (1973) 390
 Kulys, J.J., see Čénas, N.K. (1973) 399
 Kuroda, G., see Inui, T. (1973) 147
- Larson, E.M. and Jagendorf, A.T.
 Sulfite stimulation of chloroplast coupling factor ATPase (1973) 67
 Larson, E.M., Umbach, A. and Jagendorf, A.T.
 Sulfite-stimulated release of $[^3H]ADP$ bound to chloroplast thylakoid ATPase (1973) 78
 Lavorel, J., Richaud, P. and Verméglio, A.
 Interaction of photosynthesis and respiration in Rhodospirillaceae: evidence for two functionally distinct $b-c_1$ complex fractions (1973) 290
 Leegood, R.C., see Doncaster, H.D. (1973) 176
 Levine, Y.K., see Van Gorp, M. (1973) 405
 Ligeti, E. and Fonyó, A.
 Phosphate transport protein of rat heart mitochondria: location of its SH-groups and exploration of their environment (1973) 170
- MacColl, R., see Guard-Friar, D. (1973) 118
 Malmström, B.G., see Fabian, M. (1973) 414
 Mamedov, M.D., see Drachev, L.A. (1973) 189
 McCormack, J.G., Browne, H.M. and Dawes, N.J.
 Studies on mitochondrial Ca^{2+} -transport and matrix Ca^{2+} using fura-2-loaded rat heart mitochondria (1973) 420
 McEwan, A.G., Richardson, D.J., Hudig, H., Ferguson, S.J. and Jackson, J.B.
 Identification of cytochromes involved in electron transport to trimethylamine *N*-oxide/dimethylsulphoxide reductase in *Rhodobacter capsulatus* (1973) 308
- Mehari, T., see Parrett, K.G. (1973) 324
 Menabò, R., see Di Lisa, F. (1973) 185
 Mimuro, M., Yamazaki, I., Tamai, N. and Katoh, T.
 Excitation energy transfer in phycobilisomes at $-196^\circ C$ isolated from the cyanobacterium *Anabaena variabilis* (M-3): evidence for the plural transfer pathways to the terminal emitters (1973) 153
 Minkov, I.B. and Strotmann, H.
 The effect of azide on regulation of the chloroplast H^+ -ATPase by ADP and phosphate (1973) 7
 Miotto, G., see Di Lisa, F. (1973) 185
 Miyaoka, T., see Enami, I. (1973) 35
 Mochizuki, Y., see Enami, I. (1973) 35
 Monell, C.R., see Karukstis, K.K. (1973) 124
 Moody, A.J. and Rich, P.R.
 The functional catalytic unit involved in proton pumping by rat liver cytochrome-*c* reductase and by cytochrome-*c* oxidase (1973) 29
 Moritani, C., see Sakai, Y. (1973) 450
 Mulikjanian, A.Y., see Drachev, L.A. (1973) 189
- Nabedryk, E., see Breton, J. (1973) 13
 Nam, S.S., see Park, D.-G. (1973) 19
 Neuhaus, E., see Quick, P. (1973) 263
- Ono, T.-a. and Inoue, Y.
 Removal of Ca by pH 3.0 treatment inhibits S_2 to S_3 transition in photosynthetic oxygen evolution system (1973) 443
 Ono, T.-a., see Inui, T. (1973) 147
- Pande, A., see Pande, C. (1973) 257
 Pande, C., Callender, R., Baribeau, J., Boucher, F. and Pande, A.
 Effect of lipid-protein interaction on the color of bacteriorhodopsin (1973) 257
 Park, D.-G., Nam, S.S., Kim, K. and Kim, H.
 Effect of high pressure on the light-induced structural change of bacteriorhodopsin reconstituted in liposome (1973) 19
 Parrett, K.G., Mehari, T., Warren, P.G. and Golbeck, J.H.
 Purification and properties of the intact P-700 and F_x -containing Photosystem I core protein (1973) 324
 Paschenko, V.Z., see Stahl, U. (1973) 198
 Prat-Gay, G. and Wolosiuk, R.A.
 Differential reactivity of chloroplast fructose-1,6-bisphosphatase to Woodward's reagent K and diethylpyrocarbonate (1973) 457
 Pullerits, T., see Freiberg, A. (1973) 93
- Quick, P., Neuhaus, E., Feil, R. and Stitt, M.
 Fluoride leads to an increase of inorganic pyrophosphate and an inhibition of photosynthetic sucrose synthesis in spinach leaves (1973) 263
- Rakauskienė, G.A., see Čénas, N.K. (1973) 399
 Rehm, A.M., Gültow, M. and Ried, A.
 Changes in the photosynthetic apparatus of red algae induced by spectral alteration of the light field. I. A decrease in the apparent quantum yield of PS I caused by preillumination with light I (1973) 131
 Rich, P.R., see Moody, A.J. (1973) 29
 Richardson, D.J., see McEwan, A.G. (1973) 308
 Richaud, P., see Lavorel, J. (1973) 290
 Ried, A., see Rehm, A.M. (1973) 131
 Rolfe, S.A. and Bendall, D.S.
 The role of an extrinsic 9 kDa polypeptide in oxygen evolution by Photosystem II particles from *Phormidium laminosum* (1973) 220
 Rózsa, Z., Droppa, M. and Horváth, G.
 On the origin of the thermoluminescence band at around $+50^\circ C$ in isolated subchloroplast particles (1973) 350

- Rutgers, M., Van der Gulden, H.M.L. and Van Dam, K.
Thermodynamic efficiency of bacterial growth calculated from growth yield of *Pseudomonas oxalaticus* OX1 in the chemostat (973) 302
- Rutherford, A.W., see Evelo, R.G. (973) 428
- Sakai, Y., Moritani, C., Tsuda, M. and Tsuchiya, T.
A respiratory-driven and an artificially driven ATP synthesis in mutants of *Vibrio parahaemolyticus* lacking H⁺-translocating ATPase (973) 450
- Satoh, K., see Enami, I. (973) 35
- Satoh, K., see Takahashi, Y. (973) 138
- Scheibe, R., see Stitt, M. (973) 241
- Scherer, S., see Alpes, I. (973) 41
- Schröder, W.P., see Sundblad, L.-G. (973) 47
- Semenov, A.Y., see Drachev, L.A. (973) 189
- Shen, J.-R., see Enami, I. (973) 35
- Shinkarev, V.P., see Drachev, L.A. (973) 189
- Siliprandi, N., see Di Lisa, F. (973) 185
- Skulachev, V.P., see Drachev, L.A. (973) 189
- Slooten, L., De Smet, M. and Sybesma, C.
Sulfide-dependent electron transport in thylakoids from the cyanobacterium *Oscillatoria limnetica* (973) 272
- Smit, H.W.J., Van Dorssen, R.J. and Ames, J.
Charge separation and trapping efficiency in membranes of *Helio-bacterium chlorum* at low temperature (973) 212
- Smith, L., see Bolgiano, B. (973) 227
- Stahl, U., Tusov, V.B., Paschenko, V.Z. and Voigt, J.
Spectroscopic investigations of fluorescence behaviour, role and function of the long-wavelength pigments of Photosystem I (973) 198
- Stitt, M., Scheibe, R. and Feil, R.
Response of photosynthetic electron transport and carbon metabolism to a sudden decrease of irradiance in the saturating or the limiting range (973) 241
- Stitt, M., see Quick, P. (973) 263
- Strotmann, H., see Minkov, I.B. (973) 7
- Styring, S., see Evelo, R.G. (973) 428
- Sugio, T., Katagiri, T., Inagaki, K. and Tano, T.
Actual substrate for elemental sulfur oxidation by sulfur:ferric ion oxidoreductase purified from *Thiobacillus ferrooxidans* (973) 250
- Sundblad, L.-G., Schröder, W.P. and Åkerlund, H.-E.
S-state distribution and redox state of Q_A in barley in relation to luminescence decay kinetics (973) 47
- Sybesma, C., see Slooten, L. (973) 272
- Takahashi, Y. and Satoh, K.
Identification of the photochemically iodinated amino-acid residue on D1-protein in the Photosystem II core complex by peptide mapping analysis (973) 138
- Tamai, N., see Mimuro, M. (973) 153
- Tamura, N., Ikeuchi, M. and Inoue, Y.
Assignment of histidine residues in D1 protein as possible ligands for functional manganese in photosynthetic water-oxidizing complex (973) 281
- Tan, S. and Ho, K.-K.
Purification of an acidic plastocyanin from *Microcystis aeruginosa* (973) 111
- Tanisho, S., Kamiya, N. and Wakao, N.
Hydrogen evolution of *Enterobacter aerogenes* depending on culture pH: mechanism of hydrogen evolution from NADH by means of membrane-bound hydrogenase (973) 1
- Tano, T., see Sugio, T. (973) 250
- Taremi, S.S., Violette, C.A. and Frank, H.A.
Transient optical spectroscopy of single crystals of the reaction center from *Rhodobacter sphaeroides* wild-type 2.4.1 (973) 86
- Timpman, K., see Freiberg, A. (973) 93
- Tsuchiya, T., see Sakai, Y. (973) 450
- Tsuda, M., see Sakai, Y. (973) 450
- Tusov, V.B., see Stahl, U. (973) 198
- Umbach, A., see Larson, E.M. (973) 78
- Van Dam, K., see Rutgers, M. (973) 302
- Van der Gulden, H.M.L., see Rutgers, M. (973) 302
- Van Dorssen, R.J., see Hunter, C.N. (973) 383
- Van Dorssen, R.J., see Smit, H.W.J. (973) 212
- Van Ginkel, G., see Van Gurp, M. (973) 405
- Van Gorkom, H.J., see Vos, M.H. (973) 163
- Van Grondelle, R., see Hunter, C.N. (973) 383
- Van Gurp, M., Van Ginkel, G. and Levine, Y.K.
Fluorescence anisotropy of chlorophyll *a* and chlorophyll *b* in castor oil (973) 405
- Vänngård, T., see Wydrzynski, T. (973) 23
- Verkhovsky, M.I., see Drachev, L.A. (973) 189
- Verméglio, A., see Lavorel, J. (973) 290
- Violette, C.A., see Taremi, S.S. (973) 86
- Voigt, J., see Stahl, U. (973) 198
- Vos, M.H., Klaassen, H.E. and Van Gorkom, H.J.
Electron transport in *Helio-bacterium chlorum* whole cells studied by electroluminescence and absorbance difference spectroscopy (973) 163
- Vygodina, T. and Konstantinov, A.
Effect of pH on the spectrum of cytochrome *c* oxidase hydrogen peroxide complex (973) 390
- Wakao, N., see Tanisho, S. (973) 1
- Warren, P.G., see Parrett, K.G. (973) 324
- Wolosiuk, R.A., see Prat-Gay, G. (973) 457
- Wydrzynski, T., Ångström, J. and Vänngård, T.
H₂O₂ formation by Photosystem II (973) 23
- Yamazaki, I., see Mimuro, M. (973) 153