

Author index

- Agostiano, A., Caselli, M., Della Monica, M., Gotch, A.J. and Fong, F.K.
Polarographic studies of photocatalytic chlorophyll. Formation of chlorophyll *a* dihydrate dimer and oligomer in water-acetone binary solvent mixtures. (936) 171
- Albertsson, P.-Å. and Yu, S.-G.
Heterogeneity among Photosystem II_α. Isolation of thylakoid membrane vesicles with different functional antennae size of Photosystem II_α (936) 215
- Albertsson, P.-Å., see Andreasson, E. (936) 339
- Andreasson, E., Svensson, P., Weibull, C. and Albertsson, P.-Å.
Separation and characterization of stroma and grana membranes – evidence for heterogeneity in antenna size of both Photosystem I and Photosystem II (936) 339
- Andréasson, L.-E., Hansson, Ö. and Von Schenck, K.
The interaction of ammonia with the photosynthetic oxygen-evolving system (936) 351
- Angrilli, A., see Carbonera, D. (936) 139
- Apley, E.C. and Wagner, R.
Chemical modification of the active site of ferredoxin-NADP⁺ reductase and conformation of the binary ferredoxin/ferredoxin-NADP⁺ reductase complex in solution (936) 269
- Arcelay, A.R., Ross, R.T. and Ezzeddine, B.M.
Photosystem I generates a free-energy change of 0.7 electron volts or less (936) 199
- Aupetit, B., Ghazi, A., Blanchouin, N., Toury, R., Shechter, E. and Legrand, J.-C.
Impact on energy metabolism of quantitative and functional cyclosporine-induced damage of kidney mitochondria (936) 325
- Azzone, G.F., see Carbonera, D. (936) 139
- Bader, K.P. and Schmid, G.H.
Mass spectrometric analysis of a Photosystem-II-mediated oxygen uptake phenomenon in the filamentous cyanobacterium, *Oscillatoria chalybea* (936) 179
- Barbato, R., see Bassi, R. (936) 29
- Bassi, R., Rigoni, F., Barbato, R. and Giacometti, G.M.
Light-harvesting chlorophyll *a/b* proteins (LHCII) populations in phosphorylated membranes (936) 29
- Belikova, Y.O., Burov, V.I. and Vinogradov, A.D.
Isolation and properties of oxaloacetate keto-enol-tautomerase from bovine heart mitochondria (936) 10
- Belikova, Y.O., Kotlyar, A.B. and Vinogradov, A.D.
Oxidation of malate by the mitochondrial succinate-ubiquinone reductase (936) 1
- Bergström, H., Sundström, V., Van Grondelle, R., Gillbro, T. and Cogdell, R.
Energy transfer dynamics of isolated B800–850 and B800–820 pigment-protein complexes of *Rhodobacter sphaeroides* and *Rhodospseudomonas acidophila* (936) 90
- Berry, M.N., Gregory, R.B., Grivell, A.R., Henly, D.C., Nobes, C.D., Phillips, J.W. and Wallace, P.G.
Intracellular mitochondrial membrane potential as an indicator of hepatocyte energy metabolism: further evidence for thermodynamic control of metabolism (936) 294
- Blanchouin, N., see Aupetit, B. (936) 325
- Blubaugh, D.J. and Govindjee,
Kinetics of the bicarbonate effect and the number of bicarbonate-binding sites in thylakoid membranes (936) 208
- Boekema, E.J., see Dekker, J.P. (936) 307
- Borst-Pauwels, G.W.F.H., see Van de Mortel, J.B.J. (936) 421
- Brown, A.D., see Goyal, A. (936) 20
- Burbaev, D.S., Vakhnina, L.V. and Zoz, N.N.
Three-iron-sulfur centers of pea mitochondria (936) 289
- Burov, V.I., see Belikova, Y.O. (936) 10
- Cambria, A., see Genchi, G. (936) 413
- Carbonera, D., Angrilli, A. and Azzone, G.F.
Mechanism of nitrofurantoin toxicity and oxidative stress in mitochondria (936) 139
- Caselli, M., see Agostiano, A. (936) 171
- Chai, Y.G., see Singh, B.R. (936) 395
- Chapman, A., see Wrigglesworth, J.M. (936) 452
- Cogdell, R., see Bergström, H. (936) 90
- Comte, J., see Meister, R. (936) 67
- Cox, G.B., see Howitt, S.M. (936) 74
- Davis, D.J., Frame, M.K. and Johnson, D.A.
Resonance Raman spectroscopy indicates a lysine as the sixth iron ligand in cytochrome *f* (936) 61
- Dekker, J.P., Boekema, E.J., Witt, H.T. and Rögner, M.
Refined purification and further characterization of oxygen-evolving and Tris-treated Photosystem II particles from the thermophilic *Cyanobacterium synechococcus* sp. (936) 307
- Della Monica, M., see Agostiano, A. (936) 171
- Delrieu, M.-J. and Rosengard, F.
Characterization of two types of oxygen-evolving Photosystem II reaction center by the flash-induced oxygen and fluorescence yield (936) 39
- De Palma, A., see Genchi, G. (936) 413
- De Waard, J.H., see De Wolf, F.A. (936) 487

- De Wolf, F.A., Galmiche, J.M., Girault, G. and Kraayenhof, R.
Studies on well-coupled Photosystem I-enriched subchloroplast vesicles – energy-dependent switching between two different active states of the proton-translocation adenosine triphosphatase (936) 475
- De Wolf, F.A., Krab, K., Visschers, R.W., De Waard, J.H. and Kraayenhof, R.
Studies on well-coupled Photosystem I-enriched subchloroplast vesicles – characteristics and reinterpretation of single-turnover cyclic electron transfer (936) 487
- Dismukes, G.C., see Sivaraja, M. (936) 228
- Elsden, J., see Wrigglesworth, J.M. (936) 452
- Ezzeddine, B.M., see Arcelay, A.R. (936) 199
- Feick, R., see Ogrodnik, A. (936) 361
- Fong, F.K., see Agostiano, A. (936) 171
- Frame, M.K., see Davis, D.J. (936) 61
- Frerman, F., see Parker, Jr., W.D. (936) 133
- Fujimura, Y., see Miyao, M. (936) 465
- Galmiche, J.M., see De Wolf, F.A. (936) 475
- Garnier-Suillerot, A. and Gattegno, L.
Interaction of adriamycin with human erythrocyte membranes. Role of the negatively charged phospholipids (936) 50
- Gattegno, L., see Garnier-Suillerot, A. (936) 50
- Gautheron, D.C., see Meister, R. (936) 67
- Geelen, M.J.H., see Schönfeld, P. (936) 280
- Genchi, G., Petrone, G., De Palma, A., Cambria, A. and Palmieri, F.
Interaction of phenylisothiocyanates with the mitochondrial phosphate carrier. I. Covalent modification and inhibition of phosphate transport (936) 413
- Ghazi, A., see Aupetit, B. (936) 325
- G.H. van Wijk, F., see Hore, P.J. (936) 249
- Giacometti, G.M., see Bassi, R. (936) 29
- Gibson, F., see Howitt, S.M. (936) 74
- Gillbro, T., see Bergström, H. (936) 90
- Girault, G., see De Wolf, F.A. (936) 475
- Gleiter, H., see Renger, G. (936) 435
- Godinot, C., see Meister, R. (936) 67
- Gotch, A.J., see Agostiano, A. (936) 171
- Goto, S., see Terada, H. (936) 504
- Govindjee, , see Blubaugh, D.J. (936) 208
- Goyal, A., Brown, A.D. and Lilley, R.M.C.
The response of the green halotolerant alga *Dunaliella* to osmotic stress: effects on pyridine nucleotide contents (936) 20
- Grahn, M.F., see Wrigglesworth, J.M. (936) 452
- Gregory, R.B., see Berry, M.N. (936) 294
- Grieshaber, M.K., see Wiesner, R.J. (936) 114
- Grivell, A.R., see Berry, M.N. (936) 294
- Haas, R., see Parker, Jr., W.D. (936) 133
- Hamada, Y., see Terada, H. (936) 504
- Hansson, Ö., see Andréasson, L.-E. (936) 351
- Hanssum, B., see Renger, G. (936) 435
- Henly, D.C., see Berry, M.N. (936) 294
- Hiyama, T., see Kobayashi, M. (936) 81
- Hoff, A.J., see Hore, P.J. (936) 249
- Hore, P.J., Hunter, D.A., G.H. van Wijk, F., Schaafsma, T.J. and Hoff, A.J.
Electron spin polarization in the donor triplet state of bacterial photosynthetic reaction centres. II. Anisotropic inversion of electron spin polarization in a three-spin model reaction centre (936) 249
- Howitt, S.M., Gibson, F. and Cox, G.B.
The proton pore of the F_0F_1 -ATPase of *Escherichia coli*: Ser-206 is not required for proton translocation (936) 74
- Hunter, D.A., see Hore, P.J. (936) 249
- Hunziker, D., see Sivaraja, M. (936) 228
- Ikegami, I., see Kobayashi, M. (936) 81
- Ikegami, Y., see Sugioka, K. (936) 377
- Inoue, Y., see Renger, G. (936) 435
- Isogai, Y., Nishimura, M., Iwaki, M. and Itoh, S.
Location of manganese atoms in Photosystem II studied by EPR power saturation of Signal II_{slow} (936) 259
- Itoh, M., Matsuura, K., Shimada, K. and Satoh, T.
Changes in the content of pigment-protein complexes in *Rhodobacter sphaeroides* forma sp. *denitrificans* grown under photosynthetic and photo-denitrifying conditions (936) 332
- Itoh, S., see Isogai, Y. (936) 259
- Iwaki, M., see Isogai, Y. (936) 259
- Johnson, D.A., see Davis, D.J. (936) 61
- Katoh, S., see Shen, J.-R. (936) 386
- Kobayashi, M., Watanabe, T., Nakazato, M., Ikegami, I., Hiyama, T., Matsunaga, T. and Murata, N.
Chlorophyll *a'*/P-700 and pheophytin *a*/P-680 stoichiometries in higher plants and cyanobacteria determined by HPLC analysis (936) 81
- Koike, H., see Renger, G. (936) 435
- Koppenol, W.H., see Rush, J.D. (936) 187
- Korthout, H., see Van de Mortel, J.B.J. (936) 421
- Kotlyar, A.B., see Belikova, Y.O. (936) 1
- Kraayenhof, R., see De Wolf, F.A. (936) 475
- Kraayenhof, R., see De Wolf, F.A. (936) 487
- Krab, K., see De Wolf, F.A. (936) 487
- Kreutzer, U., see Wiesner, R.J. (936) 114
- Kunz, W., see Schönfeld, P. (936) 280
- Kuzela, S., Mutvei, A. and Nelson, B.D.
Inhibition of mitochondrial protein synthesis in regenerating rat liver stimulates mitochondrial transcription (936) 372
- Laasch, H. and Weis, E.
Differential sensitivity to dibucaine of photosynthetic control of electron transport and photophosphorylation in chloroplasts (936) 99
- Lambers, A., see Sánchez Olavarria, J. (936) 108
- Lee, J., see Singh, B.R. (936) 395

- Legrand, J.-C., see Aupetit, B. (936) 325
- Letterer, R., see Ogrodnik, A. (936) 361
- Lilley, R.M.C., see Goyal, A. (936) 20
- Matsunaga, T., see Kobayashi, M. (936) 81
- Matsuura, K., see Itoh, M. (936) 332
- Meister, R., Comte, J., Godinot, C. and Gautheron, D.C.
Cyclic GMP, cyclic AMP, glucose at birth, and maturation of rat liver mitochondria (936) 67
- Michel-Beyerle, M.E., see Ogrodnik, A. (936) 361
- Mills, J.D., see Quick, W.P. (936) 222
- Minakami, H., see Sugioka, K. (936) 377
- Miyake, K., see Terada, H. (936) 504
- Miyao, M., Fujimura, Y. and Murata, N.
Partial degradation of the extrinsic 23-kDa protein of the Photosystem II complex of spinach (936) 465
- Mulder, M.M., Van der Gulden, H.M.L., Postma, P.W. and Van Dam, K.
Effect of macromolecular composition of microorganisms on the thermodynamic description of their growth (936) 406
- Mulders, D., see Van de Mortel, J.B.J. (936) 421
- Murakami, K., see Yubisui, T. (936) 447
- Murata, N., see Kobayashi, M. (936) 81
- Murata, N., see Miyao, M. (936) 465
- Mutvei, A., see Kuzela, S. (936) 372
- Nakano, M., see Sugioka, K. (936) 377
- Nakazato, M., see Kobayashi, M. (936) 81
- Nelson, B.D., see Kuzela, S. (936) 372
- Nishimura, M., see Isogai, Y. (936) 259
- Nobes, C.D., see Berry, M.N. (936) 294
- Ogrodnik, A., Volk, M., Letterer, R., Feick, R. and Michel-Beyerle, M.E.
Determination of free energies in reaction centers of *Rb. sphaeroides* (936) 361
- Palmieri, F., see Genchi, G. (936) 413
- Parker, Jr., W.D., Frerman, F., Haas, R. and Parks, J.K.
Myxothiazol resistance in human mitochondria (936) 133
- Parks, J.K., see Parker, Jr., W.D. (936) 133
- Peltier, G. and Thibault, P.
Oxygen-exchange studies in *Chlamydomonas* mutants deficient in photosynthetic electron transport: evidence for a Photosystem II-dependent oxygen uptake in vivo (936) 319
- Petrone, G., see Genchi, G. (936) 413
- Phillips, J.W., see Berry, M.N. (936) 294
- Postma, P.W., see Mulder, M.M. (936) 406
- Quick, W.P. and Mills, J.D.
The kinetics of adenine nucleotide binding to chloroplast ATPase, CF₀-CF₁, during the illumination and post illumination period in isolated pea thylakoids (936) 222
- Renger, G., Hanssum, B., Gleiter, H., Koike, H. and Inoue, Y.
Interaction of 1,4-benzoquinones with Photosystem II in thylakoids and Photosystem II membrane fragments from spinach (936) 435
- Rigoni, F., see Bassi, R. (936) 29
- Robinson, G.W., see Singh, B.R. (936) 395
- Rögner, M., see Dekker, J.P. (936) 307
- Rösen, P., see Wiesner, R.J. (936) 114
- Rosengard, F., see Delrieu, M.-J. (936) 39
- Ross, R.T., see Arcelay, A.R. (936) 199
- Rush, J.D. and Koppenol, W.H.
Electrostatic interactions of 4-carboxy-2,6-dinitrophenylsine-modified cytochromes *c* with physiological and non-physiological redox partners (936) 187
- Sánchez Olavarria, J., Lambers, A. and Van Dam, K.
Uncoupler-inhibitor titrations of ATP-driven reverse electron transfer in isolated rat-liver mitochondria (936) 108
- Sandusky, P.O. and Yocum, C.F.
Hydrogen peroxide oxidation catalyzed by chloride-depleted thylakoid membranes (936) 149
- Satoh, K., see Shen, J.-R. (936) 386
- Satoh, T., see Itoh, M. (936) 332
- Sauer, K. and Scheer, H.
Excitation transfer in C-phycoyanin. Förster transfer rate and exciton calculations based on new crystal structure data for C-phycoyanins from *Agmenellum quadruplicatum* and *Mastigocladus laminosus* (936) 157
- Schaafsma, T.J., see Hore, P.J. (936) 249
- Schaafsma, T.J., see Van Wijk, F.G.H. (936) 236
- Scheer, H., see Sauer, K. (936) 157
- Schmid, G.H., see Bader, K.P. (936) 179
- Schönfeld, P., Wojtczak, A.B., Geelen, M.J.H., Kunz, W. and Wojtczak, L.
On the mechanism of the so-called uncoupling effect of medium- and short-chain fatty acids (936) 280
- Sebban, P.
pH effect on the biphasicity of the P⁺Q_A⁻ charge recombination kinetics in the reaction centers from *Rhodobacter sphaeroides*, reconstituted with anthraquinones (936) 124
- Shechter, E., see Aupetit, B. (936) 325
- Shen, J.-R., Satoh, K. and Katoh, S.
Isolation of an oxygen-evolving Photosystem II preparation containing only one tightly bound calcium atom from a chlorophyll *b*-deficient mutant of rice (936) 386
- Shimada, K., see Itoh, M. (936) 332
- Singh, B.R., Chai, Y.G., Song, P.-S., Lee, J. and Robinson, G.W.
A photoreversible conformational change in 124 kDa *Avena* phytochrome (936) 395
- Sivaraja, M., Hunziker, D. and Dismukes, G.C.
The reaction of H₂S with the photosynthetic water-oxidizing complex and its lack of reaction with the primary electron acceptor in spinach (936) 228
- Song, P.-S., see Singh, B.R. (936) 395
- Sugioka, K., Nakano, M., Totsune-Nakano, H., Minakami, H., Tero-Kubota, S. and Ikegami, Y.
Mechanism of O₂⁻ generation in reduction and oxidation cycle of ubiquinones in a model of mitochondrial electron transport systems (936) 377
- Sundblad, L.-G.
Dark reduction of Q_A in intact barley leaves as an effect of

- lowered CO₂ concentration monitored by chlorophyll *a* luminescence and chlorophyll *a* F₀ dark fluorescence (936) 429
- Sundström, V., see Bergström, H. (936) 90
- Svensson, P., see Andreasson, E. (936) 339
- Takano, T., see Yubisui, T. (936) 447
- Takeshita, M., see Yubisui, T. (936) 447
- Takeuchi, I., see Terada, H. (936) 504
- Terada, H., Goto, S., Yamamoto, K., Takeuchi, I., Hamada, Y. and Miyake, K.
Structural requirements of salicylanilides for uncoupling activity in mitochondria: quantitative analysis of structure-uncoupling relationships (936) 504
- Tero-Kubota, S., see Sugioka, K. (936) 377
- Theuvenet, A.P.R., see Van de Mortel, J.B.J. (936) 421
- Thibault, P., see Peltier, G. (936) 319
- Totsune-Nakano, H., see Sugioka, K. (936) 377
- Toury, R., see Aupetit, B. (936) 325
- Vakhnina, L.V., see Burbaev, D.S. (936) 289
- Van Dam, K., see Mulder, M.M. (936) 406
- Van Dam, K., see Sánchez Olavarria, J. (936) 108
- Van de Mortel, J.B.J., Mulders, D., Korthout, H., Theuvenet, A.P.R. and Borst-Pauwels, G.W.F.H.
Transient hyperpolarization of yeast by glucose and ethanol (936) 421
- Van der Gulden, H.M.L., see Mulder, M.M. (936) 406
- Van der Water, N., see Wrigglesworth, J.M. (936) 452
- Van Grondelle, R., see Bergström, H. (936) 90
- Van Wijk, F.G.H. and Schaafsma, T.J.
Electron-spin polarization in the donor triplet state of bacterial photosynthetic reaction centers. I. Microsecond time-resolved EPR of *Rhodospseudomonas viridis* reaction centers (936) 236
- Vinogradov, A.D., see Belikova, Y.O. (936) 1
- Vinogradov, A.D., see Belikova, Y.O. (936) 10
- Visschers, R.W., see De Wolf, F.A. (936) 487
- Volk, M., see Ogrodnik, A. (936) 361
- Von Schenck, K., see Andréasson, L.-E. (936) 351
- Wagner, R., see Apley, E.C. (936) 269
- Wallace, P.G., see Berry, M.N. (936) 294
- Watanabe, T., see Kobayashi, M. (936) 81
- Weibull, C., see Andreasson, E. (936) 339
- Weis, E., see Laasch, H. (936) 99
- Wiesner, R.J., Kreutzer, U., Rösen, P. and Grieshaber, M.K.
Subcellular distribution of malate-aspartate cycle intermediates during normoxia and anoxia in the heart (936) 114
- Wille, B.
Thylakoid volume, proton translocation and buffering capacity as measured with spin-label techniques (936) 513
- Witt, H.T., see Dekker, J.P. (936) 307
- Wojtczak, A.B., see Schönfeld, P. (936) 280
- Wojtczak, L., see Schönfeld, P. (936) 280
- Wrigglesworth, J.M., Elsdén, J., Chapman, A., Van der Water, N. and Grahn, M.F.
Activation by reduction of the resting form of cytochrome *c* oxidase: tests of different models and evidence for the involvement of Cu_B (936) 452
- Yamamoto, K., see Terada, H. (936) 504
- Yocum, C.F., see Sandusky, P.O. (936) 149
- Yu, S.-G., see Albertsson, P.-Å. (936) 215
- Yubisui, T., Murakami, K., Takeshita, M. and Takano, T.
Purification by hydrophobic chromatography of soluble cytochrome *b₅* of human erythrocytes (936) 447
- Zoz, N.N., see Burbaev, D.S. (936) 289