

AUTHOR INDEX

- Abeliovich, A. and Shilo, M.
Photooxidative reactions of c-phycoyanin (283) 483
- Aiyar, A. S., see Alexander, K. C. (283) 206
- Alexander, K. C., Aiyar, A. S. and Sreenivasan, A.
Site of impairment of oxidative phosphorylation in irradiated rats (283) 206
- Appleby, C. A., see Henderson, K. W. (283) 187
- Arntzen, C. J.
Inhibition of photophosphorylation by tentoxin, a cyclic tetrapeptide (283) 539
- Azzone, G. F., see Massari, S. (283) 16
- Azzone, G. F., see Massari, S. (283) 23
- Balboni, E., see Massari, S. (283) 16
- Barelds-van de Beek, P. G. M. M., see Beugeling, T. (283) 328
- Beall, H. C., see Haug, A. (283) 92
- Bearden, A. J. and Malkin, R.
Quantitative EPR studies of the primary reaction of Photosystem I in chloroplasts (283) 456
- Bendall, D. S., see Cox, R. P. (283) 124
- Berden, J. A., see Wikström, M. K. F. (283) 403
- Beugeling, T., Slooten, L. and Barelds-van de Beek, P. G. M. M.
Thin-layer chromatography of pigments from reaction center particles of *Rhodospseudomonas spheroides* (283) 328
- Boardman, N. K.
Photochemical properties of a Photosystem II subchloroplast fragment (283) 469
- Böhme, H. and Cramer, W. A.
The role of cytochrome b_6 in cyclic electron transport: Evidence for an energy-coupling site in the pathway of cytochrome b_6 oxidation in spinach chloroplasts (283) 302
- Borst-Pauwels, G. W. F. H., see Huygen, P. L. M. (283) 234
- Braams, R., see Wiltling, J. (283) 543
- Brouwer, A., see Meijer, A. J. (283) 421
- Buchanan, B. B., Schürmann, P. and Shanmugam K. T.
Role of the reductive carboxylic acid cycle in a photosynthetic bacterium lacking ribulose 1,5-diphosphate carboxylase (283) 136
- Burris, R. H., see Hwang, J. C. (283) 339
- Buuren, K. J. H. van, see Muijsers, A. O. (283) 30
- Cabral, F. and Love, B.
Conformational changes in cytochrome oxidase as studied by sedimentation difference (283) 181
- Cauquis, G. et Marbach, G.
Influence de divers donneurs de protons sur les oxydoréductrices de l'ubiquinone 6 en milieu organique (283) 239
- Clayton, B. J., see Clayton, R. K. (283) 492
- Clayton, R. K. and Clayton, B. J.
Relations between pigments and proteins in the photosynthetic membranes of *Rhodospseudomonas spheroides* (283) 492
- Cohen, W. S., see Sherman, L. A. (283) 54
- Cox, R. P. and Bendall, D. S.
The effect on cytochrome b_559_{HP} and P546 of treatments that inhibit oxygen evolution by chloroplasts (283) 124
- Cramer, W. A., see Böhme, H. (283) 302
- Dalling, M. J., Tolbert, N. E. and Hageman, R. H.
Intracellular location of nitrate reductase and nitrite reductase. I. Spinach and tobacco leaves (283) 505
- Dalling, M. J., Tolbert, N. E. and Hageman, R. H.
Intracellular location of nitrate reductase and nitrite reductase. II. Wheat roots (283) 513
- Duysens, L. N. M., see Haveman, J. (283) 316
- Erickson, R. H., Hooper, A. C. and Terry, K. R.
Solubilization and purification of cytochrome a_1 from nitrosomonas (283) 155
- Etienne, A. L. and Lavergne, J.
Effect of m-dinitrobenzene on the thermal phase of fluorescence induction in photosynthesis (283) 268
- Frigeri, L., see Swanljung, P. (283) 291
- Fujime, S., Ishiwata, S. and Maeda, T.
F-actin-heavy meromyosin complex studied by optical homodyne and heterodyne methods (283) 351
- Garnier, J. et Maroc, J.
Etude des échanges de CO_2 des cellules entières et des activités photochimiques des fragments de chloroplastes de trois mutants non photosynthétiques de *Chlamydomonas reinhardtii* (283) 100
- Gerrits, N. M., see Wraight, C. A. (283) 259
- Grinius, L. L., Il'ina, M. D., Mileykovskaya, E. I., Skulachev, V. P. and Tikhonova, G. V.
Conversion of biomembrane-produced energy into electric form. V. Membrane particles of *Micrococcus lysodeikticus* and pea chloroplasts (283) 442
- Guillory, R. J., see Konigs A. W. T. (283) 334
- Gutnick, D. L., Kanner, B. I. and Postma, P. W.
Oxidative phosphorylation in mutants of *Escherichia coli* defective in energy transduction (283) 217
- Hageman, R. H., see Dalling, M. J. (283) 505
- Hageman, R. H., see Dalling, M. J. (283) 513
- Haug, A., Jaquet, D. D. and Beall, H. C.
Light emission from the *Scenedesmus obliquus* wild type, mutant 8, and mutant

- 11 strains, measured under steady-state conditions between 4 nanoseconds and 10 seconds (283) 92
- Haveman, J., Duysens, L. N. M., van der Geest, T. C. M. and van Gorkom, H. J.
Hydrazobenzene oxidation by 2,6-dichlorophenolindophenol in a photoreaction catalyzed by System I of photosynthesis. Hydrazine compounds as donors for Photosystem II (283) 316
- Heldt, H. W., see Werdan, K. (283) 430
- Henderson, R. W. and Appleby, C. A.
The redox potential of leghaemoglobin (283) 187
- Hoek, J. B., see Meijer, A. J. (283) 421
- Hooper, A. C., see Erickson, R. H. (283) 155
- Huygen, P. L. M. and Borst-Pauwels, G. W. F. H.
The effect of N,N'-dicyclohexylcarbodiimide on anaerobic and aerobic phosphate uptake by baker's yeast (283) 234
- Hwang, J. C. and Burris, R. H.
Nitrogenase-catalyzed reactions (283) 339
- Jaquet, D. D., see Haug, A. (283) 92
- Johnson, E. J., see Sadler, M. H. (283) 167
- Il'ina, M. D., see Grinius, L. L. (283) 442
- Ishiwata, S., see Fujime, S. (283) 351
- Kanner, B. I., see Gutnick, D. L. (283) 217
- Katoh, S.
Studies on electron transport associated with Photosystem I. II. Role of plastocyanin in methyl viologen photoreduction in French press-treated chloroplasts (283) 293
- Katoh, S., see Kimimura, M. (283) 279
- Keith, A. D., see Tinberg, H. M. (283) 193
- Kimimura, M. and Katoh, S.
Studies on electron transport associated with Photosystem I. I. Functional site of plastocyanin: Inhibitory effects of HgCl_2 on electron transport and plastocyanin in chloroplasts (283) 279
- Kolarov, J., see Šubík, J. (283) 146
- Konings, A. W. T. and Guillory, R. J.
Specificity of the transhydrogenase factor for chromatophores of *Rhodospseudomonas spheroides* and *Rhodospirillum rubrum* (283) 334
- Kováč, L., see Šubík, J. (283) 146
- Kraan, G. P. B., see Wraight, C. A. (283) 259
- Kupriyanov, V. V., see Saks, V. A. (283) 42
- Lavergne, J., see Etienne, A. L. (283) 268
- Lee, I. Y. and Slater, E. C.
Reducibility of cytochromes b in aerobic beef-heart mitochondria treated with antimycin (283) 395
- Lee, I. Y. and Slater, E. C.
Studies on the accessibility barrier of NADH to cytochromes b in pigeon-heart mitochondria (283) 223
- Lopes-Cardozo, M. and van den Bergh, S. G.
Ketogenesis in isolated rat liver mitochondria. Relationships with the citric acid cycle and with the mitochondrial energy state (283) 1
- Love, B., see Cabral, F. (283) 181
- Luzikov, V. N., see Saks, V. A. (283) 42
- Maeda, T., see Fujime, S. (283) 351
- Malkin, R., see Bearden, A. J. (283) 456
- Marbach, G., see Cauquis, G. (283) 239
- Maroc, J., see Garnier, J. (283) 100
- Massari, S. and Azzone, G. F.
The equivalent pore radius of intact and damaged mitochondria and the mechanism of active shrinkage (283) 23
- Massari, S., Balboni, E. and Azzone, G. F.
Distribution of permeant cations in rat liver mitochondria under steady-state conditions (283) 16
- Meijer, A. J., Brouwer, A., Reijngoud, D. J., Hoek, J. B. and Tager, J. M.
Transport of glutamate in rat-liver mitochondria (283) 421
- Mileykovskaya, E. I., see Grinius, L. L. (283) 442
- Muijsers, A. O., Spolders, H., van Buuren, K. J. H. and Wever, R.
Biochemical and biophysical studies on cytochrome aa_3 . IX. Reaction of cytochrome aa_3 with hydrazine (283) 30
- Muraoka, S. and Okada, M.
Reduction and oxidation of longer-wavelength cytochrome b (b_{566}) in rat liver mitochondria under the influence of external oxidants (283) 36
- Nakaoka, Y.
The ATP splitting of actin modified with salyrgan (283) 364
- Nauta, H., see Wiltig, J. (283) 543
- Nishimura, M., see Takamiya, K. (283) 115
- Okada, M., see Muraoka, S. (283) 36
- Ostroy, S. E., see Ward, J. A. (283) 373
- Packer, L., see Tinberg, H. M. (283) 193
- Paulsen, R. and Schwemer, J.
Studies on the insect visual pigment sensitive to ultraviolet light: Retinal as the chromophoric group (283) 520
- Postma, P. W., see Gutnick, D. L. (283) 217
- Raveed, D., see Reed, D. W. (283) 79
- Reed, D. W. and Raveed, D.
Some properties of the ATPase from chromatophores of *Rhodospseudomonas spheroides* and its structural relationship to the bacteriochlorophyll proteins (283) 79
- Reijngoud, D. J., see Meijer, A. J. (283) 421
- Sadler, M. H. and Johnson, E. J.
A comparison of the NADH oxidase electron transport systems of two obligately chemolithotropic bacteria (283) 167
- Saks, V. A., Kupriyanov, V. V. and Luzikov, V. N.
Some peculiarities of the steady-state kinetics of electron transfer in submitochondrial particles. A kinetic model based on the idea of activation of the respiratory chain induced by electron transfer (283) 42
- Schürmann, P., see Buchanan, B. B. (283) 136
- Schwemer, J., see Paulsen, R. (283) 520

- Shanmugam, K. T., see Buchanan, B. B. (283) 136
- Sherman, L. A.
The effect of diaminodurene on the delayed light and the carotenoid band shift in *Rhodospseudomonas spheroides* (283) 67
- Sherman, L. A. and Cohen, W. S.
Proton uptake and quenching of bacteriochlorophyll fluorescence in *Rhodospseudomonas spheroides* (283) 54
- Shilo, M., see Abelson, A. (283) 483
- Skulachev, V. P., see Grinius, L. L. (283) 442
- Slater, E. C., see Lee, I. Y. (283) 223
- Slater, E. C., see Lee, I. Y. (283) 395
- Slooten, L., see Beugeling, T. (283) 328
- Spolders, H., see Muijsers, A. O. (283) 30
- Sreenivasan, A., see Alexander, K. C. (283) 206
- Šubík, J., Kováč, L. and Kolarov, J.
Oxidative phosphorylation in yeast. X. Phosphorylation ability of mutants deficient in cytochromes a and b (283) 146
- Swanljung, P. and Frigeri, L.
Affinity chromatography of mitochondrial ATPase solubilized with Triton X-100 (283) 391
- Tager, J. M., see Meijer, A. J. (283) 421
- Takamiya, K. and Nishimura, M.
Effect of chlorophyllase treatment on photooxidation of P700 in chloroplast fragments (283) 115
- Terry, K. R., see Erickson, R. H. (283) 155
- Tikhonova, G. V., see Grinius, L. L. (283) 442
- Tinberg, H. M., Packer, L. and Keith A. D.
Role of lipids in mitochondrial energy coupling: Evidence from spin labeling and freeze-fracture electron microscopy (283) 193
- Tolbert, N. E., see Dalling, M. J. (283) 505
- Tolbert, N. E., see Dalling, M. J. (283) 513
- Van Buuren, K. J. H., see Wilting, J. (283) 543
- van Gorkom, H. J., see Haveman, J. (283) 310
- van den Bergh, S. G., see Lopes-Cardozo, M. (283) 1
- van der Geest, T. C. M., see Haveman, J. (283) 316
- Ward, J. A. and Ostroy, S. E.
Hydrogen ion effects and the vertebrate late receptor potential (283) 373
- Werdan, K. and Heldt, H. W.
Accumulation of bicarbonate in intact chloroplasts following a pH gradient (283) 430
- Wever, R., see Muijsers, A. O. (283) 30
- Wikström, M. K. F.
Energy-linked change in the redox state and absorption spectrum of cytochrome a in situ (283) 385
- Wikström, M. K. F. and Berden, J. A.
Oxidoreduction of cytochrome b in the presence of antimycin (283) 403
- Wilting, J., Braams, R., Nauta, H. and van Buuren, K. J. H.
The reduction mechanism of ferricytochrome c (283) 543
- Wraight, C. A.
The emission yield factor in delayed light emission by uncoupled spinach chloroplasts (283) 247
- Wraight, C. A., Kraan, G. P. B. and Gerrits, N. M.
The pH dependence of delayed and prompt fluorescence in uncoupled chloroplasts (283) 259