

AUTHOR INDEX

- Amesz, J., see Velthuys, B. R. (333) 85
- Amesz, J., see Visser, J. W. M. (333) 279
- Anderson, J. M. and Levine, R. P.
Membrane polypeptides of some higher plant chloroplasts (333) 378
- Andreo, C. S., see Vallejos, R. H. (333) 136
- Ausländer, W., see Junge, W. (333) 59
- Azuma, M., see Suzuki, T. (333) 149
- Bakker, E. P., Van den Heuvel, E. J. and Van Dam, K.
The binding of uncouplers of oxidative phosphorylation to rat-liver mitochondria (333) 12
- Bandlow, W., Wolf, K., Kaudewitz, F. and Slater, E. C.
Characterization of a mutant of *Schizosaccharomyces pombe* lacking cytochrome b-566 (333) 446
- Barber, J., see Telfer, A. (333) 343
- Bassham, J. A., see Levine, G. (333) 136
- Berger, R. and Hommes, F. A.
Studies on the control of pyruvate oxidation in isolated fetal rat liver cells (333) 535
- Braams, R., see Van Buuren, K. J. H. (333) 421
- Bradeen, D. A. and Winget, G. D.
Site-specific inhibition of photophosphorylation in isolated spinach chloroplasts by HgCl_2 . II. Evidence for three sites of energy conservation associated with non-cyclic electron transport (333) 331
- Brune, D. C. and Clayton, R. K.
A light-initiated, dark oxidation of bacteriochlorophyll from reaction center particles (333) 37
- Butler, L., see Lozier, H. (333) 460
- Butler, W. L., see Lozier, R. H. (333) 465
- Clayton, R. K., see Brune, D. C. (333) 37
- Clayton, R. K., see Wraight, C. A. (333) 246
- Clayton, R. K., see Wraight, C. A. (333) 401
- Clement-Metral, J. D. and Lefort-Tran, M.
Relations between fluorescence and thylakoid structure in *Porphyridium cruentum* (333) 560
- Crofts, A. R., see Evans, E. H. (333) 44
- De Haan, E. J., see Hoek, J. B. (333) 546
- Dutton, P. L., see Wraight, C. A. (333) 401
- El-Badry, A. M.
Hexosediphosphatase from spinach chloroplasts: purification, crystallization and some properties (333) 366
- Erixon, K. and Renger, G.
The action of tetraphenylboron as a System II electron donor and its effect on the decay of the electrical field across the thylakoid membrane (333) 95
- Ernster, L., see Hoek, J. B. (333) 546
- Etienne, A. L.
Effects of carbonyl cyanide m-chlorophenylhydrazine and hydroxylamine on the photosystem II electron exchange mechanism in 3-(3,4-dichlorophenyl)-1,1-treated algae and chloroplasts (333) 497
- Etienne, A. L.
New results on the properties of photosystem II centers blocked by 3-(3,4-dichlorophenyl)-1,1-dimethylurea in their different photoactive states (333) 320
- Etienne, A. L., Lemasson, C. et Lavourel, J.
Quenching de la chlorophylle in vivo par le m-dinitrobenzene (333) 288
- Evans, E. H. and Crofts, A. R.
The relationship between delayed fluorescence and the carotenoid shift in chromatophores from *Rhodospseudomonas capsulata* (333) 44
- Feher, G., see McElroy, J. D. (333) 261
- Gadasi, H., Oplatka, A., Lamed, R., Hochberg, A. and Low, W.
Possible uncoupling of the mechanochemical process in the actomyosin system by covalent crosslinking of F-actin (333) 161
- Galmiche, J. M., see Girault, G. (333) 314
- Girault, G. and Galmiche, J. M.
Restoration by silicotungstic acid of DCMU-inhibited photoreactions in spinach chloroplasts (333) 314
- Gould, J. M. and Izawa, S.
Studies on the energy coupling sites of photophosphorylation. IV. The relation of proton fluxes to the electron transport and ATP formation associated with Photosystem II (333) 509
- Gräber, P. and Witt, H. T.
On the electrical potential across the thylakoid membrane induced by continuous light in *Chlorella* cells (333) 389
- Haug, A., see Holzapfel, C. (333) 52
- Hochberg, A., see Gadasi, H. (333) 161
- Hoek, J. B., Ernster, L., De Haan, E. J. and Tager, J. M.
The nicotinamide nucleotide specificity of glutamate dehydrogenase in intact rat-liver mitochondria (333) 546
- Hoek, J. B., Rydstrom, J. and Hojeberg, B.

- Comparative studies on nicotinamide nucleotide transhydrogenase from different sources (333) 237
- Hojeberg, B., see Hoek, J. B. (333) 237
- Holzapfel, C. and Haug, A.
Time course of microsecond-delayed light emission from *Scenedesmus obliquus* (333) 52
- Hommes, F. A., see Berger, R. (333) 535
- Itoh, S. and Murata, N.
Temperature dependence of delayed light emission in spinach chloroplasts (333) 525
- Izawa, S., see Gould, J. M. (333) 509
- Jones, O. T. G., see Saunders, V. A. (333) 439
- Junge, W. and Ausländer, W.
The electric generator in photosynthesis of green plants. I. Vectorial and protolytic properties of the electron transport chain (333) 59
- Kahn, A. and Nielsen, O. F.
Photoconvertible protochlorophyll(ide)_{635/650} in vivo: a single species or two species in dynamic equilibrium? (333) 409
- Katoh, S. and Kimimura, M.
Light-induced changes of C-550 and fluorescence yield in ultraviolet-irradiated chloroplasts at room temperature (333) 71
- Kaudewitz, F., see Bandlow, W. (333) 446
- Kauffman, H. F. and Van Gelder, B. F.
The respiratory chain of *Azotobacter vinelandii*. III. The effect of cyanide in the presence of substrate (333) 218
- Kimimura, M., see Katoh, S. (333) 71
- Kito, Y., see Suzuki, T. (333) 149
- Knowles, C. J., see Weston, J. A. (333) 228
- Kok, B., see Marsho, T. V. (333) 353
- Krause, G. H.
Changes in chlorophyll fluorescence in relation to light-dependent cation transfer across thylakoid membranes (333) 301
- Lamed, R., see Gadasi, H. (333) 161
- Lang, D. R. and Racker, E.
Effects of quercetin and F₁ inhibitor on mitochondrial ATPase and energy linked reactions in submitochondrial particles (333) 180
- Lavorel, J., see Etienne, A. L. (333) 288
- Lefort-Tran, M., see Clement-Metral, J. D. (333) 560
- Leigh, J. S., see Wraight, C. A. (333) 401
- Lemasson, C., see Etienne, A. L. (333) 288
- Levine, G. and Bassham, J. A.
Photosynthesis inhibition in isolated spinach chloroplasts by inorganic phosphate or inorganic pyrophosphatase in the presence of pyrophosphate and magnesium ions (333) 136
- Levine, R. P., see Anderson, J. M. (333) 378
- Low, W., see Gadasi, H. (333) 161
- Lozier, H. and Butler, L.
Redox titration of the primary electron acceptor of Photosystem I in spinach chloroplasts (333) 460
- Lozier, R. H. and Butler, W. L.
Light-induced absorbance changes in chloroplasts mediated by Photosystem I and Photosystem II at low temperature (333) 465
- McElroy, J. D., Mauzerall, D. C. and Feher, G.
Characterization of primary reactants in bacterial photosynthesis. II. Kinetic studies of the light-induced EPR signal ($g = 2.0026$) and the optical absorbance changes at cryogenic temperatures (333) 261
- Maina, G.
Reserpine as an uncoupling agent (333) 481
- Marsho, T. V. and Kok, B.
Photosynthetic regulation by cations in spinach chloroplasts (333) 353
- Mauzerall, D. C., see McElroy, J. D. (333) 261
- Meijer, A. J. and Williamson, J. R.
Transfer of reducing equivalents across the mitochondrial membrane. I. Hydrogen transfer mechanisms involved in the reduction of pyruvate to lactate in isolated liver cells (333) 1
- Minton, G. A., see Wilson, R. H. (333) 22
- Muijsers, A. O., Van Buuren, K. J. H. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome c oxidase. XV. Reaction with fluoride (333) 430
- Murata, N., see Itoh, S. (333) 525
- Nielsen, O. F., see Kahn, A. (333) 409
- Oplatka, A., see Gadasi, H. (333) 161
- Palmieri, F., Passarella, S., Stipani, I. and Quagliariello, E.
Mechanism of inhibition of the inorganic phosphate carrier and the dicarboxylate carrier of mitochondria by thiol reagents (333) 195
- Passarella, S., see Palmieri, F. (333) 195
- Quagliariello, E., see Palmieri, F. (333) 195
- Racker, E., see Lang, D. R. (333) 180
- Renger, G., see Erixon, K. (333) 95
- Roveri, O. A. and Vallejos, R. H.
Spiegazzinine, a new inhibitor of mitochondrial oxidative phosphorylation (333) 187
- Rydstrom, J., see Hoek, J. B. (333) 237
- Saimi, Y., see Suzuki, T. (333) 149
- Satoh, K.
Action of some derivatives of 1,10-phenanthroline on electron transport in chloroplasts (333) 127

- Satoh, K.
Mechanism of activation and spectral shift of the F-695 emission band in chloroplasts as induced by 1,10-phenanthroline (333) 107
- Saunders, V. A. and Jones, O. T. G.
Properties of the cytochrome a-like material developed in the photosynthetic bacterium *Rhodopseudomonas spheroides* when grown aerobically (333) 439
- Singh, J.
Cytochrome oxidase from *Pseudomonas aeruginosa*. 111. Reduction of hydroxylamine (333) 28
- Slater, E. C., see Bandlow, W. (333) 446
- Stipani, I., see Palmieri, F. (333) 195
- Sugahara, M., see Suzuki, T. (333) 149
- Suzuki, T., Sugahara, M., Azuma, K., Azuma, M., Saimi, Y. and Kito, Y.
Studies on cephalopod rhodopsin; conformational changes in chromophore and protein during the photoregeneration process (333) 149
- Tager, J. M., see Hoek, J. B. (333) 546
- Tager, J. M., see Zuurendonk, P. F. (333) 393
- Telfer, A. and Barber, J.
Two fold effect of valinomycin on isolated spinach chloroplasts: uncoupling and inhibition of electron transport (333) 343
- Thomas, J. B.
Further data on the identity of an absorbing pigment around 640 nm in *Ulva lactuca* (333) 415
- Thorneley, R. N. F.
A convenient electrochemical preparation of reduced methylviologen and kinetic study of the reaction with oxygen using an anaerobic stopped-flow apparatus (333) 487
- Vallejos, R. H. and Andreo, C. S.
Alkaloids as inhibitors of photophosphorylation in spinach chloroplasts (333) 136
- Vallejos, R. H., see Roveri, O. A. (333) 187
- Van Buuren, K. J. H. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome c oxidase. XIII. Effects of cholate on the enzymic activity (333) 209
- Van Buuren, K. J. H., Van Gelder, B. F., Wilting, J. and Braams, R.
Biochemical and biophysical studies on cytochrome c oxidase. XIV. The reaction with cytochrome c as studied by pulse radiolysis (333) 421
- Van Buuren, K. J. H., see Muijsers, A. O. (333) 430
- Van Dam, K., see Bakker, E. P. (333) 12
- Van Den Heuvel, E. J., see Bakker, E. P. (333) 12
- Van Gelder, B. F., see Van Buuren, K. J. H. (333) 421
- Van Gelder, B. F., see Kauffman, H. F. (333) 218
- Van Gelder, B. F., see Van Buuren, K. J. H. (333) 209
- Van Gelder, B. F., see Visser, J. W. M. (333) 279
- Van Gelder, B. F., see Muijsers, A. O. (333) 430
- Velthuys, B. R. and Ames, J.
Charge accumulation at the reducing side of System 2 of photosynthesis (333) 85
- Visser, J. W. M., Ames, J. and Van Gelder, B. F.
EPR signals of oxidized plastocyanin in intact algae (333) 279
- Weston, J. A. and Knowles, C. J.
The respiratory system of the marine bacterium *Benecke natriegens*. I. Cytochrome composition (333) 228
- Williamson, J. R., see Meijer, A. J. (333) 1
- Wilson, R. H. and Minton, G. A.
The comparative uptake of Ba^{2+} and other alkaline earth metals by plant mitochondria (333) 22
- Winget, F. D., see Bradeen, D. A. (333) 331
- Witt, H. T., see Gräber, P.
- Wolf, K., see Bandlow, W. (333) 446
- Wraight, C. A. and Clayton, R. K.
The absolute quantum efficiency of bacteriochlorophyll photooxidation in reaction centres of *Rhodopseudomonas spheroides* (333) 246
- Wraight, C. A., Leigh, J. S., Dutton, P. L. and Clayton, R. K.
The triplet state of reaction centre bacteriochlorophyll: determination of a relative quantum yield (333) 401
- Yeates, R. A.
Interaction of beef-heart mitochondrial ATPase, coupling factor F_1 , with aurovertin (333) 173
- Zuurendonk, P. F. and Tager, J. M.
Rapid separation of particular components and soluble cytoplasm of isolated rat-liver cells (333) 393