

AUTHOR INDEX

- Alberte, R. S., see Malkin, R. (430) 398
- Andrianov, V. K., see Bulychiev, A. A. (430) 336
- Arnason, T. and Sinclair, J.
Studies on the rate-limiting reaction of photosynthetic oxygen evolution in spinach chloroplast (430) 517
- Bannister, T. T., see Slovacek, R. E. (430) 165
- Barber, J., see Williams, W. P. (430) 300
- Barbour, R. L., see Chan, S. H. P. (430) 426
- Bartsch, R. G., see Pettigrew, G. W. (430) 197
- Bassham, J. A., see Lenzian, K. (430) 478
- Bearden, A. J. and Malkin, R.
Correlation of reaction-center chlorophyll (P-700) oxidation and bound iron-sulphur photoreduction in chloroplast Photosystem I at low temperatures (430) 538
- Bearden, A. J., see Malkin, R. (430) 389
- Bering, C. L., Dilley, R. A. and Crane, F. L.
Inhibition of energy-transducing functions of chloroplast membranes by lipophilic iron chelators (430) 327
- Bolton, J. R., see McIntosh, A. R. (430) 555
- Bulychiev, A. A., Andrianov, V. K., Kurella, G. A. and Litvin, F. F.
Photoinduction kinetics of electrical potential in a single chloroplast as studied with micro-electrode technique (430) 336
- Caplan, S. R., see Sherman, W. V. (430) 454
- Chamorovsky, S. K., Remennikov, S. M., Kononenko, A. A., Venediktov, P. S. and Rubin, A. B.
New experimental approach to the estimation of rate of electron transfer from the primary to secondary acceptors in the photosynthetic electron transport chain of purple bacteria (430) 62
- Chan, S. H. P. and Barbour, R. L.
Purification and properties of ATPase inhibitor from rat liver mitochondria (430) 426
- Clement-Metral, J. D., see Pradel, J. (430) 253
- Cogdell, R. J., Parson, W. W. and Kerr, M. A.
The type, amount, location, and energy transfer properties of the carotenoid in reactions centers from *Rhodospseudomonas sphaeroides* (430) 83
- Cramer, W. A., see Horton, P. (430) 122
- Crane, F. L., see Bering, C. L. (430) 327
- Czapski, G., see Ilan, Y. A. (430) 209
- Dancker, P., see Löw, I. (430) 366
- Den Haan, G. A., Gorter de Vried, H. and Duysens, L. N. M.
Correlation between flash-induced oxygen evolution and fluorescence yield kinetics in the 0 to 16 μ s range in *Chlorella pyrenoidosa* during incubation with hydroxylamine (430) 265
- Dilley, R. A., see Bering, C. L. (430) 327
- Duysens, L. N. M., see den Haan, G. A. (430) 265
- Eggelta, T. A., see Meijer, A. J. (430) 53
- Ericson, B. G., see Rydström, J. (430) 419
- Ferguson, S. J., Lloyd, W. J., Radda, G. K. and Slater, E. C.
On the role of the essential tyrosine residue in the mitochondrial ATPase (430) 189
- Ford, L., Hill, H. A. O., Mann, B. E., Sadler, P. J. and Williams, R. J. P.
Nuclear magnetic resonance spectroscopy of cobalt (II) porphyrin-quinone complexes (430) 413
- Fridovich, I., see Hodgson, E. K. (430) 182
- Gaetani, G. F. D., see Marenzi, C. (430) 395
- Gantt, E., Lipschultz, C. A. and Zilinskas, B.
Further evidence for a phycobilisome model from selective dissociation, fluorescence emission, immunoprecipitation, and electron microscopy (430) 375
- Gibson, Q. H., see Wharton, D. C. (430) 445
- Gorter de Vried, H., see den Haan, G. A. (430) 265
- Hall, D. O., see Kulandaivelu, G. (430) 46
- Henriques, F. and Park, R. B.
Compositional characteristics of a chloroform/methanol-soluble protein fraction from spinach chloroplast membranes (430) 312
- Hill, H. A. O., see Ford, L. (430) 413
- Hiromi, K., see Kihara, H. (430) 225
- Hodgson, E. K. and Fridovich, I.
The accumulation of superoxide radical during the aerobic action of xanthine oxidase. A requiem for H_2O_4^- (430) 182
- Hoek, J. B., see Rydström, J. (430) 419
- Hoppe, H. J., see Rurainski, H. J. (430) 105
- Horak, A. and Zalik, S.
Studies on photophosphorylation utilizing methylene diphosphonate analogs of ADP and ATP (430) 135
- Horton, P. and Cramer, W. A.
Stimulation of Photosystem I-induced oxidation of chloroplast cytochrome b-559 by preillumination and by low pH (430) 122
- Hundal, T., see Rydström, J. (430) 419

- Hunter, F. A., see Malkin, R. (430) 398
- Iizuka, T., see Kihara, H. (430) 225
- Ikeda-Saito, M., see Kihara, H. (430) 225
- Ilan, Y. A., Czapski, G. and Meisel, D.
The one-electron transfer redox potentials of free radicals. I. The oxygen/superoxide system (430) 209
- Jinks, D. C. and Matz, L. L.
The reduced nicotinamide adenine dinucleotide "oxidase" of *Acholeplasma laidlawii* membranes (430) 71
- Jobse, P. A., see van der Plas, L. H. M. (430) 1
- Junge, W., see Schmid, R. (430) 145
- Jungermann, K., see Riebeling, V. (430) 434
- Kamen, M. D., see Pettigrew, G. W. (430) 197
- Ke, B., see Olson, J. M. (430) 524
- Kerr, M. A., see Cogdell, R. J. (430) 83
- Kihara, H., Saigo, S., Nakatani, H., Hiromi, K., Ikeda-Saito, M. and Iizuka, T.
Kinetic study of isomerization of ferricytochrome c at alkaline pH (430) 225
- Kikuchi, R., see Takahashi, F. (430) 490
- Knaff, D. B. and Malkin, R.
Iron-sulfur proteins of the green photosynthetic bacterium *Chlorobium* (430) 244
- Kovačević, Z.
Importance of the flux of phosphate across the inner membrane of kidney mitochondria for the activation of glutaminase and the transport of glutamine (430) 399
- Kononenko, A. A., see Chamorovsky, S. K. (430) 62
- Korenstein, R., see Sherman, W. V. (430) 454
- Kulandaivelu, G. and Hall, D. O.
Site specific inhibition of α -benzyl- α -bromomalonitrile (BBMD) of electron transport in spinach chloroplasts (430) 46
- Kulandaivelu, G. and Senger, H.
The 520 nm absorbance changes in *Scenedesmus obliquus* and its relation to Photosystem I (430) 94
- Kurella, G. A., see Bulychev, A. A. (430) 336
- Kushmerick, M. J., see Levy, R. M. (430) 352
- Lavorel, J. and Lemasson, C.
Anomalies in the kinetics of photosynthetic oxygen emission in sequences of flashes revealed by matrix analysis. I. Effects of carbonyl cyanide *m*-chlorophenylhydrazone and variation in time parameters (430) 501
- Lemasson, C., see Lavorel, J. (430) 501
- Lenzian, K. and Bassham, J. A.
NADPH/NADP⁺ ratios in photosynthesizing reconstituted chloroplasts (430) 478
- Levy, R. M., Umazume, Y. and Kushmerick, M. J.
Ca²⁺ dependence of tension and ADP production in segments of chemically skinned muscle fibers (430) 352
- Lion, Y., see van der Vorst, A., (430) 467
- Lipschultz, C. A., see Gantt, E. (430) 375
- Litvin, F. F., see Bulychev, A. A. (430) 336
- Lloyd, W. J., see Ferguson, S. J. (430) 189
- Löw, I. and Dancker, P.
Effect of cytochalasin B on formation and properties of muscle F-actin (430) 366
- Malkin, R., Bearden, A. J., Hunter, F. A., Alberte, R. S. and Thornber, J. P.
Properties of the low-temperature Photosystem I primary reaction in the P-700-chlorophyll *a*-protein (430) 389
- Malkin, R., see Bearden, A. J. (430) 538
- Malkin, R., see Knaff, D. B. (430) 244
- Mangel, M.
Properties of liposomes that contain chloroplast pigments: photosensitivity and efficiency of energy conversion (430) 459
- Mann, B. E., see Ford, L. (430) 413
- Mareni, C. and Gaetani, G. F. D.
NADP⁺ and NADPH in glucose 6-phosphate dehydrogenase-deficient erythrocytes under oxidative stimulation (430) 395
- Marsho, T. V., see Sokolove, P. M. (430) 321
- Matz, L. L., see Jinks, D. C. (430) 71
- McIntosh, A. R. and Bolton, J. R.
Electron spin resonance spectrum of species "X" which may function as the primary acceptor in Photosystem I of green plant photosynthesis (430) 555
- Meijer, A. J., van Woerkom, G. M. and Eggelsta, T. A.
Phthalonic acid, an inhibitor of α -oxoglutarate transport in mitochondria (430) 53
- Meisel, D., see Ilan, Y. A. (430) 209
- Meyer, T. E., see Pettigrew, G. W. (430) 197
- Mills, J., see Williams, W. P. (430) 300
- Muallem, A., see Williams, W. P. (430) 300
- Nakatani, H., see Kihara, H. (430) 225
- Nicholls, P.
The effect of formate on cytochrome *aa*₃ and on electron transport in the intact respiratory chain (430) 13
- Nicholls, P.
Catalytic activity of cytochromes *c* and *c*₁ in mitochondria and submitochondrial particles (430) 30
- Olson, J. M., Ke, B. and Thompson, K. H.
Exciton interaction among chlorophyll molecules in bacteriochlorophyll *a* proteins and bacteriochlorophyll *a* reaction-center complexes from green bacteria (430) 524
- Parson, W. W., see Cogdell, R. J. (430) 83
- Park, R. B., see Henriques, F. (430) 312
- Pettigrew, G. W., Meyer, T. E., Bartsch, R. G.

- and Kamen, M. D.
pH dependence of the oxidation-reduction potential of cytochrome c_2 (430) 197
- Pradel, J. and Clement-Metral, J. D.
A 4-vinylprotochlorophyllide complex accumulated by "Phofil" mutant of *Rhodospseudomonas spheroides*. An authentic intermediate in the development of the photosynthetic apparatus (430) 253
- Radda, G. K., see Lloyd, W. J. (430) 189
- Remennikov, S. M., see Chamorovsky, S. K. (430) 62
- Riebeling, V. and Jungermann, K.
Properties and function of clostridial membrane ATPase (430) 434
- Rubin, A. B., see Chamorovsky, S. K. (430) 62
- Rurainski, H. J. and Hoppe, H. J.
Light-dependent development of photosynthetic competence in *Scenedesmus* mutant no. 8 (430) 105
- Rydström, J., Hoek, J. B., Ericson, B. G. and Hundal, T.
Evidence for a lipid dependence of mitochondrial nicotinamide nucleotide transhydrogenase (430) 419
- Sadler, P. J., see Ford, L. (430) 413
- Saigo, S., see Kihara, H. (430) 225
- Salamon, Z., see Williams, W. P. (430) 282
- Salamon, Z., see Williams, W. P. (430) 300
- Saucin, M., see van der Vorst, A. (430) 467
- Schmid, R., Shavit, N. and Junge, W.
The coupling factor of photophosphorylation and the electric properties of the thylakoid membrane (430) 145
- Senger, H., see Kulandaivelu, G. (430) 94
- Shavit, N., see Schmid, R. (430) 145
- Sherman, W. V., Korenstein, R. and Caplan, S. R.
Energetics of chronology of phototransients in the light-response of the purple membrane of *Halobacterium halobium* (430) 454
- Shuvalov, V. A.
The study of the primary photoprocesses in Photosystem I of chloroplasts. Recombination luminescence, chlorophyll triplet state and triplet-triplet annihilation (430) 113
- Sinclair, J., see Arnason, T. (430) 517
- Slabas, A. R. and Walker, D. A.
Transient inhibition by ribose-5-phosphate of photosynthetic O_2 evolution in a reconstituted chloroplast system (430) 154
- Slater, E. C., see Ferguson, S. J. (430) 189
- Slovacek, R. E. and Bannister, T. T.
Evidence against proton gradient formation being the cause of chlorophyll fluorescence quenching by N-methylphenazonium (430) 165
- Sokolove, P. M. and Marsho, T. V.
Ascorbate-independent carotenoid de-epoxidation in intact spinach chloroplasts (430) 321
- Takahashi, F. and Kikuchi, R.
Photoelectrolysis using chlorophyll electrodes (430) 490
- Thompson, K. H., see Olson, J. M. (430) 524
- Thornber, J. P., see Malkin, R. (430) 398
- Umazume, Y., see Levy, R. M. (430) 352
- Van der Plas, L. H. M., Jobse, P. A. and Verleur, J. D.
Cytochrome c dependent, antimycin-A resistant respiration in mitochondria from potato tuber (*Solanum tuberosum* L.). Influence of wounding and storage time on outer membrane NADH-cytochrome-c-reductase (430) 1
- Van der Vorst, A., Lion, Y., et Saucin, M.
Photosensibilisation des constituants des acides nucléiques par la proflavine. Mécanisme de formation de radicaux d'addition d'hydrogène en solutions aqueuses gélées. (Photosensitization of constituents of nucleic acids by proflavine. Mechanism of formation of hydrogen addition radicals in frozen aqueous solutions (430) 467
- Van Woerkom, G. M., see Meijer, A. J. (430) 53
- Venediktov, P. S., see Chamorovsky, S. K. (430) 62
- Verleur, J. D., see van der Plas, L. H. W. (430) 1
- Walker, D. A., see Slabas, A. R. (430) 154
- Wharton, D. C. and Gibson, Q. H.
Cytochrome oxidase from *Pseudomonas aeruginosa*. IV. Reaction with oxygen and carbon monoxide (430) 445
- Williams, R. J. P., see Ford, L. (430) 413
- Williams, W. P. and Salamon, Z.
Enhancement studies on algae and isolated chloroplasts. I. Variability of photosynthetic enhancement in *Chlorella pyrenoidosa* (430) 282
- Williams, W. P., Salamon, Z., Muallem, A., Barber, J. and Mills, J.
Enhancement studies on algae and isolated chloroplasts. II. Enhancement of oxygen evolution in intact chloroplasts (430) 300
- Zalik, S., see Horak, A. (430) 135
- Zilinskas, B., see Gantt, E. (430) 375