

AUTHOR INDEX

- Albracht, S. P. J. and Slater, E. C.
Reconstitutionally active NADH dehydrogenase (189) 308
- Anderson, J. M. and Pyliotis, N. A.
Studies with manganese-deficient spinach chloroplasts (189) 280
- Anderson, M. M. and McCarty, R. E.
The effects of plastocyanin on photo-phosphorylation (189) 193
- Appleby, C. A.
The separation and properties of low-spin (haemochrome) and native, high-spin forms of leghaemoglobin from soybean nodule extracts (189) 267
- Awasthi, Y. C., Berezney, R., Ruzicka, F. J. and Crane, F. L.
Action of phospholipase A on mitochondrial cristae (189) 457
- Azzi, A. and Chance, B.
The "energized state" of mitochondria: Lifetime and ATP equivalence (189) 141
- Bartsch, R. G., see Cusanovich, M. A. (189) 245
- Bassham, J. A. and Krause, G. H.
Free energy changes and metabolic regulation in steady-state photosynthetic carbon reduction (189) 207
- Bassham, J. A., see Springer-Lederer, H. (189) 464
- Batra, P. P., see Howes, C. D. (189) 298
- Beinert, H., see Van Gelder, B. F. (189) 1
- Bennoun, P. et Joliot, A.
Etude de la photooxydation de l'hydroxylamine par les chloroplastes d'épinards (189) 85
- Berezney, R., see Awasthi, Y. C. (189) 457
- Blakeley, C. F., see Howes, C. D. (189) 298
- Boardman, N. K. and Thorne, S. W.
Fluorescence properties of fragments from sonicated spinach chloroplasts (189) 294
- Bonaventura, C. and Myers, J.
Fluorescence and oxygen evolution from *Chlorella pyrenoidosa* (189) 366
- Bottrill, D. E. and Possingham, J. V.
Isolation procedures affecting the retention of water-soluble nitrogen by spinach chloroplasts in aqueous media (189) 74
- Bottrill, D. E. and Possingham, J. V.
The effect of mineral deficiency and leaf age on the nitrogen and chlorophyll content of spinach chloroplasts (189) 80
- Bryla, J., Kaniuga, Z. and Slater, E. C.
Studies on the mechanism of inhibition of the mitochondrial electron transport by antimycin. II. Antimycin as an allosteric inhibitor (189) 317
- Bryla, J., Kaniuga, Z. and Slater, E. C.
Studies on the mechanism of inhibition of the mitochondrial electron transport by antimycin. III. Binding of antimycin to submitochondrial particles and to Complex III (189) 327
- Buchanan, B. B., Matsubara, H. and Evans, M. C. W.
Ferredoxin from the photosynthetic bacterium, *Chlorobium thiosulfatophilum*: A link to ferredoxins from nonphotosynthetic bacteria (189) 46
- Carmeli, C.
Properties of ATPase in chloroplasts (189) 256
- Cellarius, R. A. and Peters, G. A.
Photosynthetic membrane development in *Rhodospseudomonas spheroides*: Incorporation of bacteriochlorophyll and development of energy transfer and photochemical activity (189) 234
- Chance, B., see Azzi, A. (189) 141
- Chance, B., see Kihara, T. (189) 116
- Collard, J., see Wintermans, J. F. G. M. (189) 95
- Cramer, W. A.
Low potential titration of the fluorescence yield changes in photosynthetic bacteria (189) 54
- Crane, F. L., see Awasthi, Y. C. (189) 457
- Cusanovich, M. A. and Bartsch, R. G.
A high potential cytochrome c from *Chromatium chromatophores* (189) 245
- Degn, H., see Mochan, E. (189) 354
- Drechsler, Z., Nelson, N. and Neumann, J.
Antimycin A as an uncoupler and electron transport inhibitor in photoreactions of chloroplasts, (189) 65
- El-Badry, A. M., see Springer-Lederer, H. (189) 464
- Evans, M. C. W., see Buchanan, B. B. (189) 46
- Feldman, D., see Stam, Jr., A. C. (189) 304
- Gaudin, J., see Portzehl, H. (189) 429
- Gaudin, J., see Portzehl, H. (189) 440
- Gee, R., Saltman, P. and Weaver, E.
Studies on three photosynthetic mutants of *Scenedesmus* (189) 106
- Givan, A. L. and Levine, R. P.
The photosynthetic electron transport chain of a mutant strain of *Chlamydomonas reinhardtii* lacking P700 activity (189) 404
- Gryder, J. W., see Ketchum, P. A. (189) 360
- Heath, R. L. and Hind, G.
On the functional site of manganese in photosynthetic oxygen evolution (189) 222
- Helsing, P. J., see Wintermans, J. F. G. M. (189) 95
- Hind, G., see Heath, R. L. (189) 222
- Howes, C. D., Batra, P. P. and Blakeley, C. F.
Absolute requirement for oxygen during

- illumination for photoinduced carotenoid synthesis (189) 298
- Hülsmann, W. C., see Van Tol, A. (189) 342
- Itoh, M., see Yamashita, K. (189) 133
- Joliot, A., see Bennoun, P. (189) 85
- Kaniuga, Z., see Bryła, J. (189) 317
- Kaniuga, Z., see Bryła, J. (189) 327
- Ketchum, P. A., Sanders, H. K., Gryder, J. W. and Nason, A.
Characterization of cytochrome c from *Nitrobacter agilis* (189) 360
- Kihara, T. and Chance, B.
Cytochrome photooxidation at liquid nitrogen temperatures in photosynthetic bacteria (189) 116
- Konings, A. W. T.
Comparison of inosine and glucose as a substrate for energy metabolism in isolated rat-thymus nuclei (189) 125
- Krause, G. H., see Bassham, J. A. (189) 207
- Kumaoka, H., see Yoshida, Y. (189) 461
- Kurup, C. K. R. and Sanadi, D. R.
The energy-linked nature of respiration-dependent bromothymol blue color decrease in submitochondrial particles (189) 300
- Levine, R. P., see Givan, A. L. (189) 404
- Lofrumento, N. E., see Papa, S. (189) 311
- Loglisci, M., see Papa, S. (189) 311
- McCarty, R. E., see Anderson, M. M. (189) 193
- Maintai, K. E.
Carbonylcyanide m-chlorophenylhydrazine as an inhibitor of coupled electron transport in trypsin treated spinach chloroplasts (189) 449
- Mathieu, Y.
Influence de l'oxygène sur les transferts d'électrons de la photosynthèse. I. Influence de diverses concentrations d'oxygène sur quelques réactions de Hill (189) 411
- Mathieu, Y.
Influence de l'oxygène sur les transferts d'électrons de la photosynthèse. II. Influence de très faibles concentrations en oxygène sur la réduction du NADP⁺ par les chloroplastes isolés (189) 422
- Matsubara, H., see Buchanan, B. B. (189) 46
- Meyer, A. J. and Tager, J. M.
Effect of butyl malonate and mersalyl on anion-exchange reactions in rat-liver mitochondria (189) 136
- Mochan, E. and Degn, H.
Autocatalytic peroxidation of ferrocyclochrome c (189) 354
- Morais, R.
Studies on the localization of rat liver mitochondrial 5'-endonuclease (189) 38
- Murata, N.
Control of excitation transfer in photosynthesis. II. Magnesium ion-dependent distribution of excitation energy between two pigment systems in spinach chloroplasts (189) 171
- Murata, N. and Sugahara, K.
Control of excitation transfer in photosynthesis. III. Light-induced decrease of chlorophyll a fluorescence related to photophosphorylation system in spinach chloroplasts (189) 182
- Myers, J., see Bonaventura, C. (189) 366
- Nakamura, S. and Yamazaki, I.
One-electron transfer reactions in biochemical systems. IV. A mixed mechanism in the reaction of milk xanthine oxidase with electron acceptors (189) 29
- Nason, A., see Ketchum, P. A. (189) 360
- Nelson, N., see Drechsler, Z. (189) 65
- Neumann, J., see Drechsler, Z. (189) 65
- Nobel, P. S.
Density of pea chloroplasts determined by four different methods (189) 452
- Ottenheim, H. C. J., see Springer-Lederer, H. (189) 464
- Papa, S., Lofrumento, N. E., Loglisci, M. and Quagliariello, E.
On the transport of inorganic phosphate and malate in rat-liver mitochondria (189) 311
- Parson, W. W.
The reaction between primary and secondary electron acceptors in bacterial photosynthesis (189) 384
- Parson, W. W.
Cytochrome photooxydations in Chromatium chromatophores: Each P879 oxidizes two cytochrome C₄₂₂ hemes (189) 397
- Peters, G. A., see Cellarius, R. A. (189) 234
- Polman, B. J. J., see Wintermans, J. F. G. M. (189) 95
- Portzehl, H., Zaoralek, P. and Gaudin, J.
Association and dissociation of thick and thin filaments within myofibrils in conditions of "contraction" and "relaxation" (189) 429
- Portzehl, H., Zaoralek, P. and Gaudin, J.
The activation by Ca²⁺ of the ATPase of extracted muscle fibrils with variation of ionic strength, pH, and concentration of MgATP (189) 440
- Possingham, J. V., see Bottrill, D. E. (189) 74
- Possingham, J. V., see Bottrill, D. E. (189) 80
- Pylotis, N. A., see Anderson, J. M. (189) 280
- Quagliariello, E., see Papa, S. (189) 311
- Ruzicka, F. J., see Awasthi, Y. C. (189) 457
- Saltman, P., see Gee, R. (189) 106
- Sanadi, D. R., see Kurup, C. K. R. (189) 300
- Sanders, H. K., see Ketchum, P. A. (189) 360
- Seidel, J. C.
The effects of monovalent and divalent cations on the ATPase activity of myosin (189) 162
- Shelburne, J. W., see Stam, Jr., A. C. (189) 304
- Shibata, K., see Yamashita, K. (189) 133
- Sinclair, J.
A new interpretation of the evidence for a first-order thermal reaction in the production of oxygen by *Chlorella pyrenoidosa* (189) 60
- Slater, E. C., see Albracht, S. P. J. (189) 308

- Slater, E. C., see Bryła, J. (189) 317
 Slater, E. C., see Bryła, J. (189) 327
 Sonnenblick, E. H., see Stam, Jr., A. C. (189) 304
 Springer-Lederer, H., El-Badry, A. M., Ottenheym, H. C. J. and Bassham, J. A.
 Inhibition of photosynthesis in isolated spinach chloroplasts by added fructose-1,6-diphosphatase (189) 464
 Stam, Jr., A. C., Shelburne, J. W., Feldman, D. and Sonnenblick, E. H.
 A myocardial sarcolemma preparation and the ouabain-sensitive (Na^+ - K^+)-ATPase (189) 304
 Sugahara, K., see Murata, N. (189) 182
 Tager, J. M., see Meyer, A. J. (189) 136
 Thorne, S. W., see Boardman, N. K. (189) 294
 Thorp, S. L., see Williams, Jr., J. N. (189) 25
 Tulp, A. and Van Dam, K.
 The effect of mersalyl on the oxidation of succinate by housefly mitochondria (189) 337
 Van Dam, K., see Tulp, A. (189) 337
 Van Gelder, B. F. and Beinert, H.
 Studies of the heme components of cytochrome c oxidase by EPR spectroscopy (189) 1
 Van Gisbergen, J., see Winternans, J. F. G. M. (189) 95
 Van Tol, A. and Hülsmann, W. C.
 The localization of palmitoyl-CoA: carnitine palmitoyltransferase in rat liver (189) 342
 Vredenberg, W. J.
 Enhancement of the dark reconstitution of photosynthetic reaction center 2 by nigericin and CCCP (189) 129
 Weaver, E., see Gee, R. (189) 106
 Williams, Jr., J. N. and Thorp, S. L.
 Re-evaluation of cytochrome c concentrations in rat organs using a new method for cytochrome c (189) 25
 Winkler, H. H.
 Localization of the atractyloside-sensitive nucleotide binding sites in rat liver mitochondria (189) 152
 Winternans, J. F. G. M., Helmsing, P. J., Polman, B. J. J., Van Gisbergen, J. and Collard, J.
 Galactolipid transformations and photochemical activities of spinach chloroplasts (189) 95
 Wojtczak, L. and Załuska, H.
 Inhibition by oleate of the binding and exchange of ATP by mitochondrial membranes (189) 455
 Yamashita, K., Itoh, M. and Shibata, K.
 Activation by manganese of photochemical oxygen evolution and NADP⁺ photo-reduction in chloroplasts (189) 133
 Yamazaki, I., see Nakamura, S. (189) 29
 Yoshida, Y. and Kumaoka, H.
 Purification of cytochrome b_5 -like hemo-protein from anaerobically grown yeast (189) 461
 Załuska, H., see Wojtczak, L. (189) 455
 Zaoralek, P., see Portzehl, H. (189) 429
 Zaoralek, P., see Portzehl, H. (189) 440