

AUTHOR INDEX

- Agosin, M., see Capdevila, J. (314) 93
- Aledort, L. M., see Hanson, J. P. (314) 382
- Aubrey, B. B., see Reinach, P. (314) 360
- Baccarini Melandri, A., Zannoni, D. and Melandri, B. A.
Energy transduction in photosynthetic bacteria. VI. Respiratory sites of energy conservation in membranes from dark-grown cells of *Rhodopseudomonas capsulata* (314) 298
- Berger, R. and Hommes, F. A.
Regulation of pyruvate oxidation in mitochondria isolated from fetal and adult rat liver (314) 1
- Blanchaer, M. C., see Thakar, J. H. (314) 8
- Bouges-Bocquet, B.
Electron transfer between the two photosystems in spinach chloroplasts (314) 250
- Breton, J., Michel-Villaz, M. and Paillotin, G.
Orientation of pigments and structural proteins in the photosynthetic membrane of spinach chloroplasts: A linear dichroism study (314) 42
- Brocklehurst, J. R., Cierkosz, B. I. T. and Lee, C.-P.
Fluorescent labelling of the mitochondrial inner membrane (314) 136
- Brody, S. S., see Reinach, P. (314) 360
- Bryła, J., Zaleski, J. and Kubica, A.
Competition for energy between phosphoenolpyruvate and citruline synthesis in guinea-pig liver mitochondria (314) 411
- Capdevila, J., Perry, A. S., Morello, A. and Agosin, M.
Some spectral properties of cytochrome P-450 from microsomes isolated from control, phenobarbital- and naphthalene-treated houseflies (314) 93
- Cierkosz, B. I. T., see Brocklehurst, J. R. (314) 136
- Colbow, K.
Energy transfer in photosynthesis (314) 320
- Cormier, M. J., see Wampler, J. E. (314) 104
- DeVault, D., see Izawa, S. (314) 328
- Dutton, P. L. and Leigh, J. S.
Electron spin resonance characterization of Chromatium D hemes, non-heme irons and the components involved in primary photochemistry (314) 178
- Ebert, M., see Farrington, J. A. (314) 372
- Edelmann, K., see Strotmann, H. (314) 202
- Eltner, E. F. and Kramer, R.
Role of the superoxide free radical ion in photosynthetic ascorbate oxidation and ascorbate-mediated photophosphorylation (314) 340
- Farrington, J. A., Ebert, M., Land, E. J. and Fletcher, K.
Bipyridylum quaternary salts and related compounds. V. Pulse radiolysis studies of the reaction of paraquat radical with oxygen. Implications for the mode of action of bipyridyl herbicides (314) 372
- Fletcher, K., see Farrington, J. A. (314) 372
- Geller, G., see Heldt, H. W. (314) 224
- Goedheer, J. C.
Chlorophyll a forms in *Phaeodactylum tricornutum*: Comparison with other diatoms and brown algae (314) 191
- Gould, J. M. and Izawa, S.
Studies on the energy coupling sites of photophosphorylation. I. Separation of Site I and Site II by partial reactions of the chloroplast electron transport chain (314) 211
- Hall, D. O., see Reeves, S. G. (314) 66
- Hammes, G. G., see Tondre, C. (314) 245
- Hanson, J. P., Repke, D. I., Katz, A. M. and Aledort, L. M.
Calcium ion control of platelet thrombosthenin ATPase activity (314) 382
- Harris, D. A., Rosing, J., van de Stadt, R. J. and Slater, E. C.
Tight binding of adenine nucleotides to beef-heart mitochondrial ATPase (314) 149
- Heldt, H. W., Werdan, K., Milovancev, M. and Geller, G.
Alkalization of the chloroplast stroma caused by light-dependent proton flux into the thylakoid space (314) 224
- Hesse, H., see Strotmann, H. (314) 202
- Homann, P. H., see Vredenberg, W. J. (314) 261
- Hommes, F. A., see Berger, R. (314) 1
- Howland, J. L., Lichtman, J. W. and Settlemire, C. T.
Inhibition of the mitochondrial respiratory chain by alkylhydroxynaphthoquinones: Reversal on discharge of the energized state (314) 154
- Izawa, S., Kraayenhof, R., Ruuge, E. K. and DeVault, D.
The site of KCN inhibition in the photo-

- synthetic electron transport pathway (314) 328
- Izawa, S., see Gould, J. M. (314) 211
- Karkhanis, Y. D., see Wampler, J. E. (314) 104
- Katz, A. M., see Hanson, J. P. (314) 382
- Kauffman, H. F. and van Gelder, B. F.
The respiratory chain of *Azotobacter vinelandii*. II. The effect of cyanide on cytochrome d (314) 276
- Kok, B., see Radmer, R. (314) 28
- Koyama, N., see Yamazaki, Y. (314) 257
- Kraayenhof, R., see Izawa, S. (314) 328
- Kramer, R., see Elstner, E. F. (314) 340
- Kubica, A., see Bryła, J. (314) 411
- Kusel, J. P. and Storey, B. T.
CO-binding pigments and the functional terminal oxidase of the trypanosomatid hemoflagellate *Crithidia fasciculata* (314) 164
- Land, E. J., see Farrington, J. A. (314) 372
- Lee, C.-P., see Brocklehurst, J. R. (314) 136
- Leigh, J. S., see Dutton, P. L. (314) 178
- Lichtin, N. N., Shafferman, A. and Stein, G.
Reaction of cytochrome c with one-electron redox reagents. I. Reduction of ferricytochrome c by the hydrated electron produced by pulse radiolysis (314) 117
- Lichtman, J. W., see Howland, J. L. (314) 154
- Lilley, R. McC. and Walker, D. A.
The measurement of cyclic photophosphorylation in isolated chloroplasts by determination of hydrogen ion consumption. An evaluation of the method using titration at constant pH (314) 354
- Mathis, P., see Vermeglio, A. (314) 57
- Melandri, B. A., see Baccarini Melandri, A. (314) 298
- Mével-Ninio, M., see Yamamoto, T. H. (314) 267
- Michel-Villaz, M., see Breton, J. (314) 42
- Milovancev, M., see Heldt, H. W. (314) 224
- Morello, A., see Capdevila, J. (314) 93
- Morin, J. G., see Wampler, J. E. (314) 104
- Mühlbach, H.-P., see Wegmann, K. (314) 79
- Nishizaki, Y.
Kinetics of ATP formation and proton efflux by acid-base transition in chloroplasts (314) 312
- Nosoh, Y., see Yamazaki, Y. (314) 257
- Paillotin, G., see Breton, J. (314) 42
- Perry, A. S., see Capdevila, J. (314) 93
- Radmer, R. and Kok, B.
A kinetic analysis of the oxidizing and reducing sides of the O_2 -evolving system of photosynthesis (314) 28
- Reeves, S. G. and Hall, D. O.
The stoichiometry ($ATP/2e^-$ ratio) of non-cyclic photophosphorylation in isolated spinach chloroplasts (314) 66
- Reinach, P., Aubrey, B. B. and Brody, S. S.
Monomolecular films of bacteriochlorophyll and derivatives at an air-water interface: Surface and spectral properties (314) 360
- Renger, G.
The action of 3-(3,4-dichlorophenyl)-1,1-dimethylurea on the water-splitting enzyme system Y of photosynthesis (314) 113
- Renger, G.
Studies on the mechanism of destabilization of the positive charges trapped in the photosynthetic water-splitting enzyme system Y by a deactivation-accelerating agent (314) 390
- Repke, D. I., see Hanson, J. P. (314) 382
- Rosing, J., see Harris, D. A. (314) 149
- Ruuge, E. K., see Izawa, S. (314) 328
- Settlemyre, C. T., see Howland, J. L. (314) 154
- Shafferman, A., see Lichtin, N. N. (314) 117
- Slater, E. C., see Harris, D. A. (314) 149
- Slooten, L.
Fluorescence excitation spectra and the relative numbers of pigment molecules in reaction centres from *Rhodospseudomonas spheroides* (314) 15
- Stein, G., see Lichtin, N. N. (314) 117
- Storey, B. T., see Kusel, J. P. (314) 164
- Strotmann, H., Hesse, H. and Edelmann, K.
Quantitative determination of coupling factor CF_1 of chloroplasts (314) 202
- Stuart, A. L. and Wasserman, A. R.
Purification of cytochrome b_6 . A tightly bound protein in chloroplast membranes (314) 284
- Thakar, J. H., Wrogemann, K. and Blanchaer, M. C.
Effect of ruthenium red on oxidative phosphorylation and the calcium and magnesium content of skeletal muscle mitochondria of normal and BIO 14.6 dystrophic hamsters (314) 8
- Tondre, C. and Hammes, G. G.
A kinetic study of the binding of an ADP fluorescent analog to mitochondrial ATPase (314) 245
- Tonk, W. J. M., see Vredenberg, W. J. (314) 261
- Valentine, R. C., see Yamamoto, T. H. (314) 267
- van de Stadt, R. J., see Harris, D. A. (314) 149
- van Gelder, B. F., see Kauffman, H. F. (314) 276
- Vermeglio, A. and Mathis, P.
Photoreduction of C-550 and oxidation of

- cytochrome b_{559} in chloroplasts: Dependence on the state of Photosystem II (314) 57
- Volkov, G. A.
Bioelectrical response of the *Nitella flexilis* cell to illumination: A new possible state of plasmalemma in a plant cell (314) 83
- Vredenberg, W. J., Homann, P. H. and Tonk, W. J. M.
Light-induced potential changes across the the chloroplast enclosing membranes as expressions of primary events at the thylakoid membrane (314) 261
- Walker, D. A., see Lilley, R. McC. (314) 354
- Wampler, J. E., Karkhanis, Y. D., Morin, J. G and Cormier, M. J.
Similarities in the bioluminescence from the Pennatulacea (314) 104
- Wasserman, A. R., see Stuart, A. L. (314) 284
- Wegmann, K. and Mühlbach, H.-P.
Photosynthetic CO_2 incorporation by isolated leaf cell protoplasts (314) 79
- Werdan, K., see Heldt, H. W. (314) 224
- Wrogemann, K., see Thakar, J. H. (314) 8
- Yamamoto, T. H., Mével-Ninio, M. and Valentine, R. C.
Essential role of membrane ATPase or coupling factor for anaerobic growth and anaerobic active transport in *Escherichia coli* (314) 267
- Yamazaki, Y., Koyama, N. and Nosoh, Y.
On the acidostability of an acidophilic thermophilic bacterium (314) 257
- Zaleski, J., see Bryła, J. (314) 411
- Zannoni, D., see Baccarini Melandri, A. (314) 298