

AUTHOR INDEX

- Alexandre, A., see Ciman, M. (253) 24
- Anderson, R., see Fritz, J. (253) 110
- Ardlie, N. G., see McElroy, F. A. (253) 64
- Aviram, I., see Wüthrich, K. (253) 98
- Avron, M., see Shneyour, A. (253) 412
- Bannister, T. T., see Selman, B. R. (253) 428
- Bearden, A. J. see Dunham, W. R. (253) 134
- Bearden, A. J., see Dunham, W. R. (253) 373
- Beinert, H., see Dunham, W. R. (253) 134
- Beinert, H., see Fritz, J. (253) 110
- Blumberg, W. E., see Peisach, J. (253) 58
- Boardman, N. K. and Thorne, S. W.
Sensitive fluorescence method for the determination of chlorophyll a chlorophyll b ratios (253) 222
- Boardman, N. K., see Hiller, R. G. (253) 449
- Bull, R., see Cummins, J. T. (253) 29
- Butler, W. L., see Erixon, K.
- Butler, W. L., see Okayama, S. (253) 476
- Carignani, G., see Ciman, M. (253) 24
- Case, G. D. and Parson, W. W.
Thermodynamics of the primary and secondary photochemical reactions in Chromatium (253) 187
- Chan, S. K., see Hill, G. C. (253) 78
- Chance, B., see Sato, N. (253) 88
- Cheah, K. S.
Oxidative phosphorylation in *Moniezia* muscle mitochondria (253) 1
- Cheniae, G. M., and Martin, I. F.
Photoactivation of the manganese catalyst of O₂ evolution. I. Biochemical and kinetic aspects (253) 167
- Cheniae, G. M., see Radmer, R. (253) 182
- Ciman, M., Carignani, G., Alexandre, A. and Siliprandi, N.
On the inhibition of α -oxobutyrate utilization by fatty acids in rat liver mitochondria (253) 24
- Cittadini, A., Galeotti, T., Russo, M. and Terranova, T.
Pathways of intracellular hydrogen transport in the Walker carcinosarcoma 256. II. Observations on oxidoreduction changes of electron carriers in slices (253) 314
- Cittadini, A., see Galeotti, T. (253) 303
- Cox Jr., Payne, W. J. and DerVartanian, D. V.
Electron paramagnetic resonance (EPR) studies on the nature of hemoproteins in nitrite and nitric oxide reduction (253) 290
- Crespi, H. L., Norris, J. R. and Katz, J. J.
Effect of isotopic substitution on the electron spin resonance spectra of flavin and flavoprotein free radicals (253) 509
- Cummins, J. T.
Spectral changes in respiratory intermediates of brain cortex in response to depolarizing pulses (253) 39
- Cummins, J. T. and Bull, R.
Spectrophotometric measurements of metabolic responses in isolated rat brain cortex (253) 29
- De Bernard, B., see Panfili, E. (253) 323
- DerVartanian, D. V., see Cox Jr., C. D. (253) 290
- Devault, D., see Seibert, M. (253) 396
- Dionisi, O., see Galeotti, T. (253) 303
- Dunham, W. R., Palmer, G., Sands, R. H. and Bearden, A. J.
On the structure of the iron-sulfur complex in the two-iron ferredoxins (253) 373
- Dunham, W. R., Bearden, A. J., Salmeen, I. T., Palmer, G., Sands, R. H., Orme-Johnson, W. H. and Beinert, H.
The two-iron ferredoxins in spinach, parsley, pig adrenal cortex, *Azotobacter vinelandii*, and *Clostridium pasteurianum*: Studies by magnetic field Mössbauer spectroscopy (253) 134
- Duranton, J., see Lagoutte, B. (253) 232
- Ebrey, T. G.
Anomalous energy transfer behaviour of light absorbed by bacteriochlorophyll in several photosynthetic bacteria (253) 385
- Ehrenberg, A., see Hollocher, T. C. (253) 346
- Epel, B. L., see Okayama, S. (253) 476
- Erixon, K. and Butler, W. L.,
Destruction of C-550 by ultraviolet radiation (253) 483
- Erixon, K., see Okayama, S. (253) 476
- Evans, M. C. W., see Smith, R. V. (253) 104
- Fee, J., see Fritz, J. (253) 110
- Flatmark, T. and Terland, O.
Cytochrome b₅₆₁ of the bovine adrenal chromaffin granules. A high potential b-type cytochrome (253) 487
- Fritz, J., Anderson, R., Fee, J., Palmer, G., Sands, R. H., Tsibris, J. C. M., Gunsalus, I. C., Orme-Johnson, W. H., and Beinert, H.
The iron electron-nuclear double resonance (ENDOR) of two-iron ferredoxins from spinach, parsley, pig adrenal cortex and *Pseudomonas putida* (253) 110
- Galeotti T., Cittadini, A., Dionisi, O., Russo M. and Terranova, T.
Pathways of intracellular hydrogen transport in the Walker carcinosarcoma 256. I. The intramitochondrial electron transport and the translocation of reducing equivalents across the mitochondrial membrane (253) 303
- Galeotti, T., see Cittadini, A. (253) 314
- Goll, D. E., see Holmes, G. R. (253) 240
- Govindjee, see Mohanty, P. (253) 213
- Gunsalus, I. C., see Fritz, J. (253) 110

- Hallman, M.
Changes in mitochondrial respiratory chain proteins during perinatal development. Evidence of the importance of environmental oxygen tension (253) 360
- Hill, G. C., Chan, S. K. and Smith, L.
Purification and properties of cytochrome c_{555} from a protozoan, *Crithidia fasciculata* (253) 78
- Hiller, R. G., and Boardman, N. K.
Light driven redox changes of cytochrome f and the development of Photosystems I and II during greening of bean leaves (253) 449
- Hollocher, T. C. and Ehrenberg, A.
Magnetic susceptibility of succinate dehydrogenase: The 4-iron preparation (253) 346
- Holmes, G. R., Goll, D. E. and Suzuki, A.
Effect of α -actinin on actin viscosity (253) 240
- Horák, H. and Pritchard, E. T.
Fatty acid oxidation in mitochondria isolated from rat submandibular salivary glands (253) 12
- Horton, A. A.
Induction of aldehyde dehydrogenase in a mitochondrial fraction (253) 514
- Kakol, I.
Characteristics of myosin modified by β -hydroxyethyl-2,4-dinitrophenyl disulphide in the presence of pyrophosphate (253) 266
- Kamen, M. D., see Kennel, S. J. (253) 153
- Katz, J. J., see Crespi, H. L. (253) 509
- Kennel, S. J. and Kamen, M. D.
Iron-containing proteins in *Chromatium*. II. Purification and properties of cholate-solubilized cytochrome complex (253) 153
- Kinlough-Rathbone, R. L., see McElroy, F. A. (253) 64
- Koch, B. L., see Murphy, P. M. (253) 295
- Kung, S. D. and Thornber, J. P.
Photosystem I and II chlorophyll-protein complexes of higher plant chloroplasts (253) 285
- Kupriyanov, V. V., see Luzikof, V. N. (253) 46
- Lagoutte, B. and Duranton, J.
Physico chemical study of chloroplast structural proteins from *Zea mays* L. (253) 232
- Levine, R. P., see Sato, V. L. (253) 437
- Lozier, R., see Okayama, S. (253) 476
- Luzikof, V. N., Saks, V. A. and Kupriyanov, V. V.
Studies on the stabilization of an oxidative phosphorylation system. I. Resistance of a phosphorylating system of submitochondrial particles to trypsin, due to phosphorylation of ADP (253) 46
- McElroy, F. A., Kinlough-Rathbone, R. L., Ardlie, N. G., Packham, M. A. and Mustard, J. F.
The effect of aggregating agents on oxidative metabolism of rabbit platelets (253) 64
- Malkin, R.
Photosystem II activity of chloroplast fragments lacking P700 (253) 421
- Mar, T., see Mohanty, P. (253) 213
- Martin, I. F., see Cheniae, G. M. (253) 167
- Melnick, R. L. and Packer, L.
Freeze-fracture faces of inner and outer membranes of mitochondria (253) 503
- Mohanty, P., Mar, T. and Govindjee
Action of hydroxylamine in the red alga *Porphyridium cruentum* (253) 213
- Murphy, P. M., Koch, B. L.,
Compatibility of the components of nitrogenase from soybean bacteroids and free-living nitrogen-fixing bacteria (253) 295
- Mustard, J. F., see McElroy, F. A. (253) 64
- Necklen, D. K., see Wimpenny, J. W. T. (253) 352
- Neumann, J., see Sato, V. L. (253) 437
- Norris, J. R., see Crespi, H. L. (253) 509
- Noy, R. J., see Smith, R. V. (253) 104
- Okayama, S., Epel, B. L., Erixon, K., Lozier, R. and Butler, W. L.
The effects of lipase on spinach and *Chlamydomonas* chloroplasts (253) 476
- Oltzik, R., see Peisach, J. (253) 58
- Onodera, M. and Yagi, K.
Synthesis of 2-(dansylamino) ethyl triphosphate and its properties as a fluorescent substrate of heavy meromyosin ATPase (253) 254
- Oosawa, F., see Tanaka, H. (253) 274
- Orme-Johnson, W. H., see Dunham, W. R. (253) 134
- Orme-Johnson, W. H., see Fritz, J. (253) 110
- Packer, L., see Melnick, R. L. (253) 503
- Packham, M. A., see McElroy, F. A. (253) 64
- Palmer, G., see Dunham, W. R. (253) 373
- Palmer, G., see Dunham, W. R. (253) 134
- Palmer, G., see Fritz, J. (253) 110
- Panfil, E., Sottocasa, G. L. and De Bernard, B.
A high molecular weight form of NADH-cytochrome b_5 reductase from ox liver microsomes (253) 323
- Park, R. B. see Sane, P. V. (253) 208
- Park, R. B., Steinback, K. V. and Sane, P. V.
Distribution of variable fluorescence among subchloroplast fractions (253) 204
- Parson, W. W., see Case, G. D. (253) 187
- Payne, W. J., see Cox Jr., C. D. (253) 290
- Peisach, J., Oltzik, R. and Blumberg, W. E.
The electron paramagnetic resonance of molybdenum in rat liver and in rat liver mitochondria (253) 58
- Pritchard, E. T., see Horák, H. (253) 12
- Radmer, R. and Cheniae, G. M.
Photoactivation of the manganese catalyst of O_2 evolution. II. A two-quantum mechanism (253) 182
- Russo, M., see Cittadini, A. (253) 314
- Russo, M., see Galeotti, T. (253) 303
- Saks, V. A., see Luzikof, V. N. (253) 46
- Salmeen, I. T., see Dunham, W. R. (253) 134
- Sands, R. H., see Fritz, J. (253) 110
- Sands, R. H., see Dunham, W. R. (253) 134

- Sands, R. H., see Dunham, W. R. (253) 373
- Sane, P. V. and Park, R. B.
Action spectra of Photosystem I and Photosystem II in spinach chloroplast grana and stroma lamellae (253) 208
- Sane, P. V., see Park, R. B. (253) 204
- Sato, N., Wilson, D. F. and Chance, B.
The spectral properties of the b cytochromes in intact mitochondria (253) 88
- Sato, V. L., Levine, R. P. and Neumann, J.
Photosynthetic phosphorylation in *Chlamydomonas reinhardtii*: Effects of a mutation altering an ATP-synthesizing enzyme (253) 437
- Schejter, A., see Wüthrich, K. (253) 98
- Seibert, M. and DeVault, D.
Photosynthetic reaction center transients, P435 and P424, in Chromatium D (253) 396
- Selman, B. R. and Bannister, T. T.
Trypsin inhibition of Photosystem II (253) 428
- Shneyour, A. and Avron, M.
Disproportionation of 1,5-diphenylcarbazone. A new reaction catalyzed by Photosystem I (253) 412.
- Siliprandi, N., see Ciman, M. (253) 24
- Smith, L., see Hill, G. C. (253) 78
- Smith, R. V., Noy, R. J. and Evans, M. C. W.
Physiological electron donor systems to the nitrogenase of the blue-green alga *Anabaena cylindrica* (253) 104
- Solnit, K. T., see Weiss Jr., C. (253) 298
- Sottocasa, G. L., see Panfili E. (253) 323
- Steinback, K. E., see Park, R. B. (253) 204
- Suzuki, A., see Holmes, G. R. (253) 240
- Tanaka, H. and Oosawa, F.
The effect of temperature on interaction between F-actin and tropomyosin (253) 274
- Terland, O., see Flatmark, T. (253) 487
- Terranova, T., see Cittadini, A. (253) 314
- Terranova, T., see Galeotti, T. (253) 303
- Thornber, J. P., see Kung, S. D. (253) 285
- Thorne, S. W.
The greening of etiolated bean leaves III. Multiple light/dark step photoconversion processes (253) 459
- Thorne, S. W., see Boardman, N. K. (253) 222
- Tsibris, J. C. M., see Fritz, J. (253) 110
- Von Gutfeld, R. J., see Weiss Jr., C. (253) 298
- Weiss Jr, C., Solnit, K. T. and von Gutfeld, R. J.
Flash activation kinetics and photosynthetic unit size for oxygen evolution using 3-nsec light flashes (253) 298
- Wikström, M. K. F.
Properties of three cytochrome b-like species in mitochondria and sub mitochondrial particles (253) 332
- Wilson, D. F., see Sato, N. (253) 88
- Wimpenny, J. W. T. and Necklen, D. K.
The redox environment and microbial physiology. I. The transition from anaerobiosis to aerobiosis in continuous cultures of facultative anaerobes (253) 352
- Wüthrich, K., Aviram, I. and Schejter, A.
Structural studies of modified cytochromes c by nuclear magnetic resonance spectroscopy (253) 98
- Yagi, K., see Onodera, M. (253) 254