

AUTHOR INDEX

- Albertsson, P. Å., see Karlstam, B. (216) 220
 Ariga, K., see Nakaya, K. (216) 364
 Avi-Dor, Y., see Streichman, S. (216) 262
 Awan, M. Z. and Goldspink, G.
 Energy utilization by mammalian fast and slow muscle in doing external work (216) 229
 Bakeeva, L. E., Grinius, L. L., Jasaitis, A. A., Kuliene, V. V., Levitsky, D. O., Liberman, E. A., Severina, I. I. and Skulachev, V. P.
 Conversion of biomembrane-produced energy into electric form. II. Intact mitochondria, (216) 13
 Bendall, D. S., see Plesničar, M. (216) 192
 Bennoun, P.
 Réoxydation du quencher de fluorescence 'Q' en présence de 3-(3,4-dichlorophényl)-1,1-diméthylurea (216) 357
 Berden, J. A. and Slater, E. C.
 The reaction of antimycin with a cytochrome *b* preparation active in reconstitution of the respiratory chain (216) 237
 Bianchi, C. P., see Tjioe, S. (216) 270
 Birdsell, D. C. and Cota-Robles, E. H.
 Electron transport particles released upon lysis of spheroplasts of *Escherichia coli* B by Brij 58 (216) 250
 Cascarano, J., see Wilson, M. A. (216) 54
 Chaney, T. H., see Ke, B. (216) 373
 Cheah, K. S.
 Properties of the membrane-bound respiratory chain system of *Halobacterium salinarum* (216) 43
 Cho, F. and Govindjee
 Low-temperature (4–77°K) spectroscopy of *Chlorella*: Temperature dependence of energy transfer efficiency (216) 139
 Cho, F. and Govindjee
 Low-temperature (4–77°K) spectroscopy of *Anacystis*: Temperature dependence of energy transfer efficiency (216) 151
 Cittadini, A., see Dionisi, O. (216) 71
 Cota-Robles, E. H., see Birdsell, D. C. (216) 250
 Cramer, W. A., see Fan, H. N. (216) 200
 Daniel, R. M.
 The electron transport system of *Acetobacter suboxydans* with particular reference to cytochrome Q (216) 328
 Degani, H., see Shavit, N. (216) 208
 Dionisi, O., Cittadini, A., Gelmuzy, G., Galeotti, T. and Terranova, T.
 The role of the α -glycerophosphate shuttle in the reoxidation of cytosolic NADH in Ehrlich ascites tumour cells (216) 71
 Dwyer, M. R. and Smillie, R. M.
 A light-induced β -1,3-glucan breakdown associated with the differentiation of chloroplasts in *Euglena gracilis* (216) 392
 Edwards, M. L., see Morita, S. (216) 384
 Eilermann, L. J. M.
 Oxidative phosphorylation in *Azotobacter vinelandii*. Atebrin as a fluorescent probe for the energized state (216) 231
 Eilermann, L. J. M. and Slater, E. C.
 The phosphate potential generated by membrane fragments of *Azotobacter vinelandii* (216) 226
 Elliott, W. B., see Mochan, B. S. (216) 96
 Elliott, W. B., see Mochan, B. S. (216) 106
 Epstein, S., see Jacobson, S. (216) 295
 Fábán, F., see Mühlrad, A. (216) 422
 Fan, H. N. and Cramer, W. A.
 The redox potential of cytochromes *b*-559 and *b*-563 in spinach chloroplasts (216) 200
 Fay, P.
 Photostimulation of nitrogen fixation in *Anabaena cylindrica* 216 (353)
 Fynn, G. H., see Seddon, B. (216) 435
 Galeotti, T., see Dionisi, O. (216) 71
 Gelmuzy, G., see Dionisi, O. (216) 71
 Gibson, J., see Morita, S. (216) 384
 Goldspink, G., see Awan, M. Z. (216) 229
 Goodchild, D. J., see Sane, P. V. (216) 162
 Govindjee, see Cho, F. (216) 139
 Govindjee, see Cho, F. (216) 151
 Grinius, L. L., see Bakeeva, L. E. (216) 13
 Grinius, L. L., Jasaitis, A. A., Kadziauskas, Yu. P., Liberman, E. A., Skulachev, V. P., Topali, V. P., Tsofina, L. M. and Vladimirova, M. A.
 Conversion of biomembrane-produced energy into electric form. I. Submitochondrial particles (216) 1
 Haraguchi, T., see Nakaya, K. (216) 364
 Haugaard, N., see Bianchi, C. P. (216) 270
 Higashi, S., Kawai, K.
 Properties and function of respiratory chain of freshwater mussel spermatozoa in relation to motility (216) 274
 Hind, G. and Nakatani, H. Y.
 Determination of the concentration and the redox potential of chloroplast cytochrome 559 (216) 223
 Isaev, P. I., Liberman E. A., Samuilov, V. D., Skulachev, V. P. and Tsofina, L. M.
 Conversion of biomembrane-produced energy into electric form III. Chromatophores of *Rhodospirillum rubrum* (216) 22
 Jacobson, B. S., Laties, G. G., Smith, B. N., Epstein, S. and Laties, B.
 Cyanide-induced transition from endogenous carbohydrate to lipid oxidation as indicated by the carbon-13 content of respiratory CO₂ (216) 295
 Jasaitis, A. A., see Bakeeva, L. E. (216) 13

- Jasaitis, A. A., see Grinius, L. L. (216) 1
- John, P. and Whatley, F. R.
Oxidative phosphorylation coupled to oxygen uptake and nitrate reduction in *Micrococcus denitrificans* (216) 342
- Kadziauskas, Yu. P., see Grinius, L. L. (216) 1
- Karlstam, B. and Albertsson, P. Å.
A spectrophotometric method for the quantitative estimation of intact (Class I) chloroplasts (216) 220
- Kawai, K., see Highasi, S. (216) 274
- Ke, B., Chaney, T. H. and Reed, D. W.
The electrostatic interaction between the reaction-center bacteriochlorophyll derived from *Rhodospseudomonas spheroides* and mammalian cytochrome *c* and its effect on light-activated electron transport (216) 373
- Kulienė, V. V., see Bakeeva, L. E., (216) 13
- Lang, R. W., see Mochan, B. S. (216) 96
- Lang, R. W., see Mochan, B. S. (216) 106
- Laties, G. G., see Jacobson, B. S. (216) 295
- Levitsky, D. O., see Bakeeva, L. E. (216) 13
- Lévy, M. and Toury, R.
Étude de l'évolution des activités des enzymes mitochondriales de l'hépatocyte au cours du développement du rat (216) 318
- Liberman, E. A., see Bakeeva, L. E. (216) 13
- Liberman, E. A., see Grinius, L. L. (216) 1
- Liberman, E. A., see Isaev, P. I. (216) 22
- Liberman, E. A. and Skulachev, V. P.
Conversion of biomembrane-produced energy into electric form. IV. General discussion (216) 30
- Iyanagi, T. and Yamazaki, I.
One-electron-transfer reactions in biochemical systems. V. Difference in the mechanism of quinone reduction by the NADH dehydrogenase and the NAD(P)H dehydrogenase (DT-diaphorase) (216) 282.
- McMacken, M. L., see Wilken, D. R. (216) 305
- Millard, S. A.
Effect of phenothiazines and their sulfoxides on lipoamide dehydrogenase (216) 439
- Miyazawa, Y., see Yamaguchi, M. (216) 411
- Mochan, E.
The nature of complex formation between cytochrome *c* and cytochrome *c* peroxidase (216) 80
- Mochan, B. S., Lang, R. W. and Elliott, W. B.
Studies on a cytochrome oxidase antibody. I. Immunochemistry (216) 96
- Mochan, B. S., Lang, R. W. and Elliott, W. B.
Studies on a cytochrome oxidase antibody. II. Inhibition kinetics (216) 106
- Moriarty, D. J. W. and Nicholas, D. J. D.
Electron transfer during sulphide and sulphite oxidation by *Thiobacillus concretivorus* (216) 130
- Morita, S., Gibson, J. and Edwards, M. L.
The hemoprotein content of *Chromatium* sp. Strain D. (216) 384
- Mühlrad, A. and Fábíán, F.
Effects of substrate and substrate analogues on the trinitrophenylation of myosin (216) 422
- Nakamura, Y., see Nakaya, K. (216) 364
- Nakatani, H. Y., see Hind, G., (216) 223
- Nakaya, K., Ariga, K., Haraguchi, T. and Nakamura, Y.
Light-induced changes in resistivity of spinach chloroplasts toward modification with diazonium-1,2,4-triazole (216) 364
- Nicholas, D. J. D., see Moriarty, D. J. W. (216) 130
- Nicholas, D. J. D., see Prabhakararao, K. (216) 122
- Park, R. B., see Sane, P. V. (216) 162
- Plesničar, M. and Bendall, D. S.
The plastocyanin content of chloroplasts from some higher plants estimated by a sensitive enzymatic assay (216) 192
- Powell, C., see Raffell, M. (216) 428
- Prabhakararao, K. and Nicholas, D. J. D.
The reduction of sulphite, nitrite and hydroxylamine by an enzyme from baker's yeast (216) 122
- Quinlan, K. P.
An ESR study of the light-induced interaction between porphyrins and quinones in amide solvents (216) 441
- Raffell, M. and Powell, C.
Assay of hydroxylation activity in immunoprecipitates (216) 428
- Rampazzo, L. and Silvestroni, P.
Studies on the "facilitated flux" of oxygen through hemoglobin solutions using a polarographic method (216) 402
- Reed, D. W., see Ke, B. (216) 373
- Robinson, B. H. and Williams, G. R.
The sensitivity of dicarboxylate anion-exchange reactions to transport inhibitors in rat-liver mitochondria (216) 63
- Rodriguez, A., see Wilken, D. R. (216) 305
- Samuilov, V. D., see Isaev, P. I. (216) 22
- Sane, P. V., Goodchild, D. J. and Park, R. B.
Characterization of chloroplast Photosystems 1 and 2 separated by a non-detergent method (216) 162
- San Pietro, A., see Shavit, N. (216) 208
- Seddon, B. and Fynn, G. H.
Terminal oxidation in *Bacillus brevis* ATCC 10068. I. The measurement of the NADH oxidase activity of *Bacillus brevis* ATCC 10068 (216) 435
- Sekine, T., see Yamaguchi, M. (216) 411
- Severina, I. I., see Bakeeva, L. E. (216) 13
- Shavit, N., Degani, H. and San Pietro, A.
II. Effects of ionophorous antibiotics in chloroplasts (216) 208
- Silvestroni, P., see Rampazzo, L. (216) 402
- Skulachev, V. P., see Bakeeva, L. E. (216) 13
- Skulachev, V. P., see Grinius, L. L. (216) 1
- Skulachev, V. P., see Isaev, P. I. (216) 22
- Skulachev, V. P., see Liberman, E. A. (216) 30
- Slater, E. C., see Berden J. A. (216) 237
- Slater, E. C., see Eilermann, L. J. M. (216) 226
- Smillie, R. M., see Dwyer, M. R. (216) 392
- Smith, B. N., see Jacobson, B. S. (216) 295
- Streichman, S. and Avi-Dor, Y.
Difference in 2-thenoyltrifluoroacetone sen-

- sitivity of electron transport with and against the redox potential gradient (216) 262
- Terpstra, W.
Particle fractionation from spinach leaf homogenates and diffusion of spinach protein factor (216) 179
- Terranova, T., see Dionisi, O. (216) 71
- Tjioe, S., Bianchi, C. P. and Haugaard, N.
The function of ATP in calcium uptake by rat brain mitochondria (216) 270
- Topali, V. P., see Grinius, L. L. (216) 1
- Tourny, R., see Lévy, M. (216) 318
- Tsofina, L. M., see Grinius, L. L. (216) 1
- Tsofina, L. M., see Isaev, P. I. (216) 22
- Vladimirova, M. A., see Grinius, L. L. (216) 1
- Vredenberg, W. J.
Application of the voltage-clamp technique for measuring the quantum efficiency of light-induced potential changes in *Nitella translucens* (216) 431
- Whatley, F. R., see John, P. (216) 342
- Wilken, D. R., McMacken, M. L. and Rodriguez, A.
Choline and betaine aldehyde oxidation by rat liver mitochondria (216) 305
- Williams, G. R., see Robinson, B. H. (216) 63
- Wilson, M. A. and Cascarano, J.
The energy-yielding oxidation of NADH by fumarate in submitochondrial particles of rat tissues (216) 54
- Yamaguchi, M., Miyazawa, Y. and Sekine, T.
Preparation and properties of smooth muscle myosin from horse esophagus (216) 411
- Yamazaki, I., see Iyanagi, T. (216) 282