

AUTHOR INDEX

- Aleksandrowicz, Z., Świerczyński, J., and Wrzółkova, T.
Protective effect of nupercaine on mitochondrial structure (305) 59
- Armstrong, B., see Berg, S. (305) 372
- Balcavage, W. X., Lloyd, J. L., Mattoon, J. R., Ohnishi, T. and Scarpa, A.
Cation movements and respiratory response in yeast mitochondria treated with high Ca^{2+} concentrations (305) 41
- Batra, S.
The role of mitochondrial calcium uptake in contraction and relaxation of the human myometrium (305) 428
- Bearden, A. J., see Malkin, R. (305) 675
- Beinert, H., see Ke, B. (305) 689
- Belaich, J.-P., see Sari, J.-C. (305) 1
- Bennoun, P., see Joliot, P. (305) 317
- Berg, S., Cipollo, D., Armstrong, B. and Krogmann, D. W.
Polycation inhibition of chloroplast Photosystem I (305) 372
- Bertina, R. M., Schrier, P. I. and Slater, E. C.
The binding of aurovertin to mitochondria, and its effect on mitochondrial respiration (305) 503
- Borisov, A. Yu. and Il'ina, M. D.
The fluorescence lifetime and energy migration mechanism in Photosystem I of plants (305) 364
- Brill, W. J., see Shah, V. K. (305) 445
- Caplan, S. R., see Paul, R. J. (305) 474
- Chance, B., see Sato, N. (305) 493
- Cipollo, D., see Berg, S. (305) 372
- Clayton, R. K., see Straley, S. C. (305) 597
- Coleman, P. S.
Uncoupling of oxidative phosphorylation by a stable free radical and its diamagnetic homolog (305) 179
- Cross, G. A. M., see Hill, G. C. (305) 590
- Decker, K., see Jungermann, K. (305) 268
- DerVartanian, D. V., Iburg, L. K. and Morgan, T. V.
EPR studies on phosphorylating particles from *Azotobacter vinelandii* (305) 173
- Diner, B. and Mauzerall, D.
Feedback controlling oxygen production in a cross-reaction between two photosystems in photosynthesis (305) 329
- Diner, B. and Mauzerall, D.
The turnover times of photosynthesis and redox properties of the pool of electron carriers between the photosystems (305) 353
- Draber, W., see Hauska, G. (305) 632
- Drews, G., see King, M. T. (305) 230
- Ernster, L., see Hoek, J. B. (305) 669
- Ernster, L., see Rydström, J. (305) 694
- Ernster, L., see Swanljung, P. (305) 519
- Felker, P., see Izawa, S. (305) 119
- Fisher, R. R., see Tischler, M. E. (305) 199
- Flatmark, T., see Pedersen, J. I. (305) 219
- Flatmark, T., see Romslo, I. (305) 29
- Flatmark, T., see Terland, O. (305) 206
- Frigeri, L., see Swanljung, P. (305) 519
- Good, N. E., see Izawa, S. (305) 119
- Gould, J. M., see Izawa, S. (305) 119
- Govindjee, see Mohanty, P. (305) 95
- Grimmelikhuijzen, C. J. P. and Slater, E. C.
Antimycin-insensitive mutants of *Candida utilis*. I. Isolation and characterization of mutant 28 (305) 67
- Haehnel, W.
Electron transport between plastoquinone and chlorophyll a_1 in chloroplasts (305) 618
- Hardt, H., see Malkin, S. (305) 292
- Hardt, H., see Malkin, S. (305) 292
- Hauska, G., Trebst, A. and Draber, W.
Lipophilicity and catalysis of photophosphorylation. II. Quinoid compounds as artificial carriers in cyclic photophosphorylation and photoreductions by Photosystem I (305) 632
- Heber, U.
Stoichiometry of reduction and phosphorylation during illumination of intact chloroplasts (305) 140
- Hill, G. C. and Cross, G. A. M.
Cyanide-resistant respiration and a branched cytochrome system in Kinetoplastidae (305) 590
- Hillel, Z., see Lumpkin, O. (305) 281
- Hirose, S., Tamaura, Y., Iida, K. and Inada, Y.
Energy-linked conformational change of the mitochondrial membrane measured with the NH_2 -modifying reagent, acrolein (305) 52
- Hoek, J. B., Rydström, J. and Ernster, L.
The NAD-linked isocitrate dehydrogenase activity in rat-liver mitochondria (305) 669
- Hoek, J. B., see Rydström, J. (305) 694
- Huang, C. H., Keyhani, E. and Lee, C. P.
Fractionation by sucrose density gradient centrifugation of membrane fragments derived by sonic disruption of beef heart

- mitochondria (305) 455
- Huisman, J., see Souverijn, J. H. M. (305) 185
- Iburg, L. K., see DerVartanian, D. V. (305) 173
- Iida, K., see Hirose, S. (305) 52
- Il'ina, M. D., see Borisov, A. Yu. (305) 364
- Inada, Y., see Hirose, S. (305) 52
- Inoue, Y., Ogawa, T. and Shibata, K.
Light-induced spectral changes of P700 in the 800-nm region in *Anacystis* and spinach lamellae (305) 483
- Izawa, S., Gould, J. M., Ort, D. R., Felker, P. and Good, N. E.
Electron transport and photophosphorylation in chloroplasts as a function of the electron acceptor III. A dibromothymoquinone-insensitive phosphorylation reaction associated with Photosystem II (305) 119
- Izawa, S., see Ouitrakul, R. (305) 105
- Joliot, A., see Joliot, P. (305) 302
- Joliot, A., see Joliot, P. (305) 317
- Joliot, P., Bennoun, P. and Joliot, A.
New evidence supporting energy transfer between photosynthetic units (305) 317
- Joliot, P. and Joliot, A.
Different types of quenching involved in Photosystem II centers (305) 302
- Jones, O. T. G., see Saunders, V. A. (305) 581
- Jungermann, K., Thauer, R. K., Leimenstoll, G. and Decker, K.
Function of reduced pyridine nucleotide-ferredoxin oxidoreductases in saccharolytic *Glostridia* (305) 268
- Kato, K., see Sato, N. (305) 493
- Kauffman, H. F. and van Gelder, B. F.
The respiratory chain of *Azotobacter vinelandii*. I. Spectral properties of cytochrome d (305) 260
- Ke, B. and Beinert, H.
Evidence for the identity of P430 of Photosystem I and chloroplast-bound iron-sulfur protein (305) 689
- Kemp, Jr, A., see Passam, H. C. (305) 88
- Kemp, Jr, A., see Souverijn, J. H. M. (305) 185
- Kepes, A., see Roisin, M. P. (305) 249
- Keyhani, E. and Storey, B. T.
Energy conservation capacity and morphological integrity of mitochondria in hypotonically treated rabbit epididymal spermatozoa (305) 557
- Keyhani, E., see Huang, C. H. (305) 455
- King, M. T. and Drews, G.
The function and the localization of ubiquinone in the NADH and succinate oxidase systems of *Rhodospseudomonas palustris* (305) 230
- Klietmann, W., see Sato, N. (305) 493
- Knaff, D. B., see Malkin, R. (305) 675
- Knowles, C. J. see Weston, J. A. (305) 11
- Krogmann, D. W., see Berg, S. (305) 372
- Kusel, J. P. and Storey, B. T.
Low-temperature spectral properties of the respiratory chain cytochromes of mitochondria from *Crithidia fasciculata* (305) 570
- Lamed, R., Levin, Y. and Oplatka, A.
Enzymatic mechanochemistry. I. The interaction of heavy meromyosin with "immobilized adenosine triphosphate" (305) 163
- Lauquin, G. and Vignais, P. V.
Adenine nucleotide translocation in yeast mitochondria. Effect of inhibitors of mitochondrial biogenesis on the ADP translocase (305) 534
- Lee, C. P., see Huang, C. H. (305) 455
- Leimenstoll, G., see Jungermann, K. (305) 268
- Leppink, G. J. and Thomas, J. B.
On the identity of the 640-nm component observed in chlorophyll b absorption spectra in vivo (305) 610
- Levin, Y., see Lamed, R. (305) 163
- Lloyd, J. L., see Balcavage, W. X. (305) 41
- Lumpkin, O. and Hillel, Z.
Isolation of a fast decay in submillisecond *Chlorella* luminescence (305) 281
- Malkin, S. and Hardt, H.
Kinetic characterization of T-jump thermoluminescence in isolated chloroplasts (305) 292
- Malkin, R., Knaff, D. B. and Bearden, A. J.
The oxidation-reduction potential of membrane-bound chloroplast plastocyanin and cytochrome *f* (305) 675
- Marston, S.
The nucleotide complexes of myosin in glycerol-extracted muscle fibres (305) 397
- Maruyama, K.
Instability of F-actin under the influence of β -actinin (305) 679
- Mattoon, J. R., see Balcavage, W. X. (305) 41
- Mauzerall, D., see Diner, B. (305) 329
- Mauzerall, D. C., see Straley, S. C. (305) 597
- Mauzerall, D., see Diner, B. (305) 353
- Michel, J. P. et Thibault, P.
Etude cinétique de la synthèse d'ATP in vivo en lumière mono- et bichromatique chez *Zea mays*: Effet antagoniste rouge-rouge lointain (390) 396
- Mohanty, P. and Govindjee
Light-induced changes in the fluorescence yield of chlorophyll a in *Anacystis nidulans*. I. Relationship of slow fluorescence changes with structural changes (305) 95
- Morgan, T. V., see DerVartanian, D. V. (305) 173

- Muijsers, A. O., see Tiesjema, R. H. (305) 19
- Ogawa, T., see Inoue, Y. (305) 483
- Ohlson, K., see Swanljung, P. (305) 519
- Ohnishi, T., see Balcavage, W. X. (305) 41
- Okamura, Y., see Tatsumi, N. (305) 433
- Oplatka, A. and Tirosh, R.
Active streaming in actomyosin solutions (305) 684
- Oplatka, A., see Lamed, R. (305) 163
- Ort, D. R., see Izawa, S. (305) 119
- Outtrakul, R. and Izawa, S.
Electron transport and photophosphorylation in chloroplasts as a function of the electron acceptor. II. Acceptor-specific inhibition by KCN (305) 105
- Packer, L., see Wang, A. Y.-I. (305) 488
- Palmer, J. M., see Passam, H. C. (305) 80
- Parson, W. W., see Straley, S. C. (305) 597
- Passam, H. C. and Palmer, J. M.
The ATPase activity of Jerusalem-artichoke mitochondria and submitochondrial particles (305) 80
- Passam, H. C., Souverijn, J. H. M. and Kemp, Jr, A.
Adenine nucleotide translocation in Jerusalem-artichoke mitochondria (305) 88
- Paul, R. J., Peterson, J. W. and Caplan, S. R.
Oxygen consumption rate in vascular smooth muscle: Relation to isometric tension (305) 474
- Pedersen, J. I. and Flatmark, T.
Studies on the energy of isolated brown adipose tissue mitochondria. A comparative study of cold-stressed and warm-readapted guinea pigs (305) 219
- Peterson, J. W., see Paul, R. J. (305) 474
- Ragot, M., see Sari, J.-C. (305) 1
- Raps, S.
Reversion of *Scenedesmus* photosynthetic mutants (305) 384
- Reimer, S., see Trebst, A. (305) 129
- Roisin, M. P. and Kepes, A.
The membrane ATPase of *Escherichia coli*. II. Release into solution, allotropic properties and reconstitution of membrane-bound ATPase (305) 249
- Romslo, I. and Flatmark, T.
Energy-dependent accumulation of iron by isolated rat liver mitochondria. I. General features (305) 29
- Rosing, J., see Souverijn, J. H. M. (305) 185
- Rydström, J., Hoek, J. B. and Ernster, L.
The oxidation of nicotinamide dinucleotide phosphate reduced by submitochondrial particles from beef heart (305) 694
- Rydström, J., see Hoek, J. B. (305) 669
- Sari, J.-C., Ragot, M. and Belaich, J.-P.
"pH stat" titration method for the determination of the thermodynamic quantities associated with the formation of ATP-magnesium complexes (305) 1
- Sato, N., Chance, B., Kato, K. and Klettmann, W.
Comparative study of cytochromes between virus-transformed and untransformed cells (305) 493
- Saunders, V. A. and Jones, O.T.G.
Oxidative phosphorylation and effects of aerobic conditions on *Rhodospseudomonas viridis* (305) 581
- Scarpa, A., see Balcavage, W. X. (305) 41
- Scholte, H. R.
On the triple localization of creatine kinase in heart and skeletal muscle cells of the rat: Evidence for the existence of myofibrillar and mitochondrial isoenzymes (305) 413
- Schrier, P. I., see Bertina, R. M. (305) 503
- Senda, N., see Tatsumi, N. (305) 433
- Shah, V. K. and Brill, W. J.
Nitrogenase. IV. Simple method of purification to homogeneity of nitrogenase components from *Azotobacter vinelandii* (305) 445
- Shibata, K., see Inoue, Y. (305) 483
- Shibata, N., see Tatsumi, N. (305) 433
- Shimizu, H., see Yamada, T. (305) 642
- Siegenthaler, P. A.
Change in pH dependence and sequential inhibition of photosynthetic activity in chloroplasts by unsaturated fatty acids (305) 153
- Slater, E. C., see Bertina, R. M. (305) 503
- Slater, E. C., see Grimmelikhuijzen (305) 67
- Souverijn, J. H. M., Huisman, L. A., Rosing, J. and Kemp, Jr, A.
Comparison of ADP and ATP as substrates for the adenine nucleotide translocator in rat-liver mitochondria (305) 185
- Souverijn, J. H. M., see Passam, H. C. (305) 88
- Storey, B. T., see Keyhani, E. (305) 557
- Storey, B. T., see Kusel, J. P. (305) 570
- Straley, S. C., Parson, W. W., Mauzerall, D. C. and Clayton, R. K.
Pigment content and molar extinction coefficients of photochemical reaction centers from *Rhodospseudomonas spheroides* (305) 597
- Suga, H., see Yamada, T. (305) 642
- Swanljung, P., Frigeri, L., Ohlson, K. and Ernster, L.
Studies on the activation of purified mitochondrial ATPase by phospholipids (305) 519

- Świerczyński, J., see Aleksandrowicz, Z. (305) 59
- Takeuchi, K., see Tatsumi, N. (305) 433
- Tamaura, Y., see Hirose, S. (305) 52
- Tatsumi, N., Shibata, N., Okamura, Y., Takeuchi, K. and Senda, N.
Actin and myosin A from leucocytes (305) 433
- Terland, O. and Flatmark, T.
NADH(NADPH:(acceptor) oxidoreductase activities of the bovine adrenal chromaffin granules (305) 206
- Thauer, R. K., see Jungermann, K. (305) 268
- Thibault, P., see Michel, J. P., (305) 390
- Thomas, J. B., see Leppink, G. J. (305) 610
- Tiesjema, R. H., Muijsers, A. O. and van Gelder, B. F.
Biochemical and biophysical studies on cytochrome c oxidase. X. Spectral and potentiometric properties of the hemes and coppers (305) 19
- Tirosh, R., see Oplatka, A. (305) 684
- Tischler, M. E. and Fisher, R. R.
Oxidation of reduced nicotinamide hypoxanthine dinucleotide phosphate by intact rat liver mitochondria (305) 199
- Trebst, A. and Reimer, S.
Properties of photoreductions by Photosystem II in isolated chloroplasts. An energy-conserving step in the photoreduction of benzoquinones by Photosystem II in the presence of dibromothymoquinone (305) 129
- Trebst, A., see Hauska, G. (305) 632
- van Gelder, B. F., see Kauffmann, H. F. (305) 260
- van Gelder, B. F., see Tiesjema, R. H. (305) 19
- Vignais, P. V., see Lauquin, G. (305) 534
- Wang, A. Y.-I. and Packer, L.
Mobility of membrane particles in chloroplasts (305) 488
- Weston, J. A. and Knowles, C. J.
A soluble CO-binding c-type cytochrome from the marine bacterium *Beneckea natriegens* (305) 11
- Wrzółkova, T., see Aleksandrowicz, Z. (305) 59
- Yamada, T., Shimizu, H. and Suga, H.
A kinetic study of the energy storing enzyme-product complex in the hydrolysis of ATP by heavy meromyosin (305) 642