

AUTHOR INDEX

- Allgyer, T. T., see Olson, M. S. (267) 238
- Armstrong, C. M., Bezanilla, F. M. and Horowitz, P.
Twitches in the presence of ethylene glycol bis(β -aminoethyl ether)-N,N'-tetraacetic acid (267) 605
- Arnon, D. I., see Schürman, P. (267) 111
- Bachofen, R., see Lewenstein, A. (267) 80
- Baltscheffsky, M., see Dutton, P. L. (267) 172
- Barns, E. M., see Hartshorne, D. J. (267) 190
- Bar-Nun, S., Wallach, D. and Ohad, I.
Biogenesis of chloroplast membranes. XII. Changes in the photosynthetic specific activity and the relationship between the light harvesting system and photosynthetic electron transfer chain during greening of *Chlamydomonas reinhardtii* y-1 cells (267) 138
- Bar-Nun, S., see Wallach, D. (267) 125
- Barrett-Bee, K. and Radda, G. K.
On the nature of the energy-linked quantum yield change in anilinonaphthalene sulphinate fluorescence in submitochondrial particles (267) 211
- Becker, J. F., see Geacintov, N. E. (267) 65
- Berden, J. A. and Oppenheimer, F. R.
An antimycin-sensitive cytochrome b component in beef-heart mitochondria (267) 7
- Bezanilla, F. M., see Armstrong, C. M. (267) 605
- Bishop, M. J.
On the photochemical phosphorylation of imidazole (267) 435
- Boardman, N. K., see Thorne, S. W. (267) 104
- Bonner, W. D., see Larkum, A. W. D. (267) 149
- Bonting, S. L., see Rotmans, J. P. (267) 583
- Brody, S. S., see Jacobs, R. (267) 341
- Brundage, R. S., Karpel, R. L., Kustin, K. and Weisel, J.
Relaxation spectra of copper(II)-ATP complexes at low pH (267) 258
- Buchanan, B. B., see Schürmann, P. (267) 111
- Burris, R. H., see Tso, M. W. (267) 600
- Butler, W. L., see Erixon, K. (267) 375
- Butler, W. L., see Okayama, S. (267) 523
- Callis, J. B., Parson, W. W. and Gouterman, M.
Fast changes of enthalpy and volume on flash excitation of Chromatium chromatophores (267) 348
- Carmeli, C. and Lifshitz, Y.
Effects of P_i and ADP on ATPase activity in chloroplasts (267) 86
- Chance, B., see Galeotti, T. (267) 1
- Chapman, D., see Cherry, R. J. (267) 512
- Cherry, R. J., Hsu, K. and Chapman, D.
Polarised absorption spectroscopy of chlorophyll-lipid membranes (267) 512
- Chua, N.-H.
Photooxidation of 3',3'-diaminobenzidine by blue-green algae and *Chlamydomonas reinhardtii* (267) 179
- Cittadini, A., see Galeotti, T. (267) 1
- Cusanovich, M. A., see Meyer, T. E. (267) 383
- Daemen, F. J. M., see Rotmans, J. P. (267) 583
- Dus, K., see Smith, Jr., W. R.
- Dutton, P. L. and Baltscheffsky, M.
Oxidation-reduction potential dependence of pyrophosphate-induced cytochrome and bacteriochlorophyll reactions in *Rhodospirillum rubrum* (267) 172
- Dutton, P. L., Erecinska, M., Sato, N., Mukai, Y., Pring, M. and Wilson, D. F.
Reactions of b-cytochromes with ATP and antimycin A in pigeon heart mitochondria (267) 15
- Erecinska, M., see Dutton, P. L. (267) 15
- Erixon, K., Lozier, R. and Butler, W. L.
The redox state of cytochrome b_{559} in spinach chloroplasts (267) 375
- Ernst, L., see Nelson, B. D. (267) 205
- Evans, M. C. W., Telfer, A. and Lord, A. V.
Evidence for the role of a bound ferredoxin as the primary electron acceptor of Photosystem I in spinach chloroplasts (267) 530
- Feher, G., Okamura, M. Y. and McElroy, J. D.
Identification of an electron acceptor in reaction centers of *Rhodospseudomonas spheroides* by EPR spectroscopy (267) 222
- Feher, G., see McElroy, J. D. (267) 363
- Fuchs, F., see Hartshorne, D. J. (267) 190
- Galeotti, T., Cittadini, A. and Chance, B.
NAD(P)⁺ redox compartmentation in Ehrlich ascites tumour cells (267) 1
- Geacintov, N. E., Van Nostrand, F., Becker, J. F. and Tinkel, J. B.
Magnetic field induced orientation of photosynthetic systems (267) 65
- Gouterman, M., see Callis, J. B. (267) 348
- Hardt, H. and Malkin, S.
Luminescence of isolated chloroplasts induced by organic solvents (267) 588
- Hatchikian, E. C. and le Gall, J.
Evidence for the presence of a b-type cytochrome in the sulfate-reducing bacterium *Desulfovibrio gigas*, and its role in the reduction of fumarate by molecular hydrogen (267) 479
- Hartshorne, D. J., Barns, E. M., Parker, L. and Fuchs, F.
The effect of temperature on actomyosin (267) 190
- Henderson, R. W., see Morton, T. C. (267) 485
- Henderson, R. W., see Muijsers, A. O. (267) 216

- Hiyama, T. and Ke, B.
Difference spectra and extinction coefficients of P700 (267) 160
- Horowicz, P., see Armstrong, C. M. (267) 605
- Hsu, K., see Cherry, R. J. (267) 512
- Jacobs, R. and Brody, S. S.
Restorative effect of warming on the fluorescence intensity and fluorescence induction of photosynthetic material at 77°K (267) 341
- Johnson, H. M. and Wilson, R. H.
Sr²⁺ uptake by bean (*Phaseolus vulgaris*) mitochondria (267) 398
- Kamite, L., see Yamamoto, H. Y. (267) 538
- Karpel, R. L., see Bundage, R. S. (267) 258
- Kawamura, M. and Murayama, K.
Length distribution of F-actin transformed from Mg-polymer (267) 422
- Ke, B.
One-way electron discharge subsequent to the photochemical charge separation in Photosystem I (267) 595
- Ke, B., see Hiyama, T. (267) 160
- Keith, A. D., see Williams, M. A. (267) 444
- King, T. E., see Yu, C. A. (267) 300
- Kolarov, J., Šubík, J. and Kováč, L.
Oxidative phosphorylation in yeast. VIII. Osmotic and permeability properties of mitochondria isolated from wild-type yeast and from a respiration-deficient mutant (267) 457
- Kolarov, J., Šubík, J. and Kováč, L.
Oxidative phosphorylation in yeast. IX. Modification of the mitochondrial adenine nucleotide translocation system in the oxidative phosphorylation-deficient mutant *op₁* (267) 465
- Kováč, L., see Kolarov, J. (267) 465
- Kováč, L., see Kolarov, J. (267) 457
- Kraaiipoel, R. J., see van de Stadt, R. J. (267) 25
- Kustin, K., see Brundage, R. S. (267) 258
- Larkum, A. W. D. and Bonner, W. D.
The effect of artificial electron donor and acceptor systems on light-induced absorbance responses of cytochromes f and other pigments in intact chloroplasts (267) 149
- le Gall, J., see Hatchikian, E. C. (267) 479
- Lewenstein, A. and Bachofen, R.
Transient induced oscillations in the level of ATP in *Chlorella fusca* (267) 80
- Lifshitz, Y., see Carmeli, C. (267) 86
- Ljones, T., see Tso, M. W. (267) 600
- Lord, J. M.
Glycolate oxidoreductase in *Escherichia coli* (267) 227
- Lord, A. V., see Evans, M. C. W. (267) 530
- Lozier, R., see Erixon, K. (267) 375
- Luzikov, V. N. and Romashina, L. V.
Studies on stabilization of the oxidative phosphorylation system. II. Electron transfer-dependent resistance of succinate oxidase and NADH oxidase systems of sub-mitochondrial particles to proteinase and cobra venom phospholipase (267) 37
- Malkin, S., see Hardt, H. (267) 588
- Margulies, M. M.
Effect of cold-storage of bean leaves on photosynthetic reactions of isolated chloroplasts. Inability to donate electrons to Photosystem II and relation to manganese content (267) 96
- Mason, H. S., see Ysebaert-Vanneste, M. (267) 268
- Mathis, P. and Sauer, K.
Circular dichroism studies on the structure and the photochemistry of protochlorophyllide and chlorophyllide holochrome (267) 498
- Mauzerall, D. C., see McElroy, J. D. (267) 363
- McElroy, J. D., Feher, G. and Mauzerall, D. C.
Characterization of primary reactants in bacterial photosynthesis. I. Comparison of the light-induced EPR signal ($g = 2.0026$) with that of a bacteriochlorophyll radical (267) 363
- McElroy, J. D., see Feher, G. (267) 222
- Meyer, T. E. and Cusanovich, M. A.
Euglena gracilis cytochrome 558 (267) 383
- Mihashi, K.
Alkylation of urea-denatured actin with iodoacetate: Functional reorganization of actin (267) 409
- Mochan, E. and Nicholls, P.
Cytochrome c reactivity in its complexes with mammalian cytochrome c oxidase and yeast peroxidase (267) 309
- Morton, T. C. and Henderson, R. W.
Redox potentials of the pyridine-haem c system (267) 485
- Muijsers, A. O., Tiesjema, R. H., Henderson, R. W. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome aa₃. VII. The effect of cytochrome c on the oxidation-reduction potential of isolated cytochrome aa₃ (267) 216
- Mukai, Y., see Dutton, P. L. (267) 15
- Muraoka, S., Takahashi, K. and Okada, M.
New sensitive method for the spectral analysis of respiratory-chain components in mitochondria (267) 291
- Murayama, K., see Kawamura, M. (267) 422
- Nakamura, M. and Yamazaki, I.
One-electron transfer reactions in biochemical systems. VI. Changes in electron transfer mechanism of lipoamide dehydrogenase by modification of sulfhydryl groups (267) 249
- Nakaoka, Y.
Effects on tropomyosin, troponin and Ca²⁺ on the interaction between F-actin and heavy meromyosin (267) 558
- Nelson, B. D., Norling, B., Persson, B. and Ernster, L.
Influence of ubiquinone on the rate of antimycin binding to submitochondrial particles (267) 205
- Nicholls, P., see Mochan, E. (267) 309
- Norling, B., see Nelson, B. D. (267) 205
- Ohad, I., see Bar-Nun, S. (267) 138

- Ohad, I., see Wallach, D. (267) 125
- Okada, M., see Muraoka, S. (267) 291
- Okamura, M. Y., see Feher, G. (267) 222
- Okayama, S. and Butler, W. L.
The influence of cytochrome b_{559} on the fluorescence yield of chloroplasts at low temperature (267) 523
- Olson, M. S. and Allgier, T. T.
The inhibition of L(-)-palmitylcarnitine oxidation by α -ketoglutarate in rat liver mitochondria (267) 238
- Opperdoes, F. R., see Berden, J. A. (267) 7
- Packer, L., see Williams, M. A. (267) 444
- Parker, L., see Hartshorne, D. J. (267) 190
- Parson, W. W., see Callis, J. B. (267) 348
- Persson, B., see Nelson, B. D. (267) 205
- Pring, M., see Dutton, P. L. (267) 15
- Quinlan, K. P.
The effect of oxygen and benzoquinone concentration on the reversible spectrophotometric changes accompanying the photo-oxidation of porphyrins at low pH values (267) 493
- Radda, G. K., see Barrett-Bee, K. (267) 211
- Romashina, L. V., see Luzikov, V. N. (267) 37
- Rosing, J. and Slater, E. C.
The value of ΔG° for the hydrolysis of ATP (267) 275
- Rotmans, J. P., Daemen, F. J. M. and Bonting, S. L.
Biochemical aspects of the visual process. XIX. Formation of isorhodopsin from photolyzed rhodopsin by bacterial action (267) 583
- Sanadi, D. R., see Taggart, W. V. (267) 439
- Sapshead, L. M. and Wimpenny, J. W. T.
The influence of oxygen and nitrate on the formation of the cytochrome pigments of the aerobic and anaerobic respiratory chain of *Micrococcus denitrificans* (267) 388
- Sato, N., see Dutton, P. L. (267) 15
- Sauer, K., see Mathis, P. (267) 498
- Sauer, K., see Schultz, A. (267) 320
- Schultz, A. and Sauer, K.
Circular dichroism and fluorescence changes accompanying the protochlorophyllide to chlorophyllide transformation in greening leaves and holochrome preparations (267) 320
- Schürmann, P., Buchanan, B. B. and Arnon, D. I.
Role of cyclic photophosphorylation in photosynthetic carbon dioxide assimilation by isolated chloroplasts (267) 111
- Slater, E. C., see Rosing, J. (267) 275
- Smith, Jr., W. R., Sybesma, C. and Dus, K.
Isolation and characteristics of small, soluble photoreactive fragments of *Rhodospirillum rubrum* (267) 609
- Solomonson, L. P. and Vennesland, B.
Properties of a nitrate reductase of *Chlorella* (267) 544
- Stanciliff, R. C., see Williams, M. A. (267) 444
- Storey, B. T.
The respiratory chain of plant mitochondria. XIII. Redox state changes of cytochrome b_{562} in mung bean seedling mitochondria treated with antimycin A (267) 48
- Šubík, J., see Kolarov, J. (267) 457
- Šubík, J., see Kolarov, J. (267) 465
- Sybesma, C., see Smith, Jr., W. R. (267) 609
- Taggart, W. V. and Sanadi, D. R.
Menadiol as an electron donor for reversed oxidative phosphorylation in submitochondrial particles (267) 439
- Takahashi, K., see Muraoka, S. (267) 291
- Telfer, A., see Evans, M. C. W. (267) 530
- Thorne, S. W. and Boardman, N. K.
The kinetics of photoconversion of protochlorophyllide in etiolated bean leaves (267) 104
- Tiesjema, R. H., see Muijsers, A. O. (267) 216
- Tinkel, J. B., see Geacintov, N. E. (267) 65
- Tso, M. W., Ljones, T. and Burris, R. H.
Purification of the nitrogenase proteins from *Clostridium pasteurianum* (267) 600
- van Dam, K., see van de Stadt, R. J. (267) 25
- van de Stadt, R. J., Kraaijpoel, R. J. and van Dam, K.
 $F_1 \cdot X$: A complex between F_1 and OSCP (267) 25
- van Gelder, B. F., see Muijsers, A. O. (267) 216
- Vanneste, W. H., see Ysebaert-Vanneste, M. (267) 268
- Van Nostrand, F., see Geacintov, N. E. (267) 65
- Vennesland, B., see Solomonson, L. P. (267) 544
- Wallach, D., Bar-Nun, S. and Ohad, I.
Biogenesis of chloroplast membranes. XI. Development of photophosphorylation and proton pump activities in greening *Chlamydomonas reinhardtii* y-1 as measured with an open-cell preparation (267) 125
- Wallach, D., see Bar-Nun, S. (267) 138
- Weisel, J., see Brundage, R. S. (267) 258
- Williams, M. A., Stanciliff, R. C., Packer, L. and Keith, A. D.
Relation of unsaturated fatty acid composition of rat liver mitochondria to oscillation period, spin label motion, permeability and oxidative phosphorylation (267) 444
- Wilson, D. F., see Dutton, P. L. (267) 15
- Wilson, R. H., see Johnson, H. M. (267) 398
- Wimpenny, J. W. T., see Sapshead, L. M. (267) 388
- Yamamoto, H. Y. and Kamite, I.
The effect of dithiothreitol on violaxanthin de-epoxidation and absorbance changes in the 500-nm region (267) 538
- Yamazaki, I., see Nakamura, M. (267) 249
- Ysebaert-Vanneste, M., Vanneste, W. H. and Mason, H. S.
Anomalous ESR signal from rapidly frozen liver microsomes (267) 268
- Yu, C. A., Yu, L. and King, T. E.
Spectral evidence of multiple cytochromes b present in succinate: cytochrome c reductase (267) 300
- Yu, L., see Yu, C. A. (267) 300