

AUTHOR INDEX

- Albracht, S. P. J., see Slater, E. C. (256) 14
- Albracht, S. P. J., Van Heerikhuijzen, H. and Slater, E. C.
Iron-sulphur proteins in the succinate oxidase system (256) 1
- Amesz, J., Visser, J. W. M., van den Engh, G. J. and Dirks, M. P.
Reaction kinetics of intermediates of the photosynthetic chain between the two photosystems (256) 370
- Ammeraal, R. M., see Crespi, H. L. (256) 611
- Appenheimer, M., von Chak, D. und Weber, H. H.
Der Nucleotidaustausch des F-Actin in kontrahierten, erschlafenen und totenstarren Fibrillen in seiner Bedeutung für den molekularen Mechanismus der Muskelkontraktion (256) 681
- Arnon, D. I., see Shanmugam, K. T. (256) 477
- Arnon, D. I., see Shanmugam, K. T. (256) 487
- Arntzen, C. J., Dilley, R. A., Peters, G. A. and Shaw, E. R.
Photochemical activity and structural studies of photosystems derived from chloroplast grana and stroma lamellae (256) 85
- Axelrod, B. and Beevers, H.
Differential response of mitochondrial and glyoxysomal citrate synthase to ATP (256) 175
- Azoulay, E., Couchoud-Beaumont, P. et Lebeault, J. M.
Etude des mutants chlorate-résistantes d'*Escherichia coli* K12. IV. Isolement, purification et étude de la nitrate-réductase reconstituée in vitro par complémentation (256) 670
- Azzi, A., Tamburro, A. M., Farnia, G. and Gobbi, E.
Cytochrome c interaction with the mitochondrial membrane: A spin label study (256) 619
- Ballschmiter, K. and Katz, J. J.
Chlorophyll-chlorophyll and chlorophyll-water interactions in the solid state (256) 307
- Bassham, J. A., see Kanazawa, T. (256) 656
- Beevers, H., see Axelrod, B. (256) 175
- Berden, J. A. and Slater, E. C.
The allosteric binding of antimycin to cytochrome b in the mitochondrial membrane (256) 199
- Berden, J. A., Opperdoes, F. R. and Slater, E. C.
The effect of ATP on the apparent midpoint potentials of cytochrome b and cytochrome c in beef-heart mitochondria (256) 594
- Berden, J. A., see Slater, E. C. (256) 14
- Berl, S., see Puszkin, S. (256) 695
- Böhme, H., see Cramer, W. A. (256) 358
- Bonner, W. D., see Larkum, A. W. D. (256) 385
- Bonner, W. D., see Larkum, A. W. D. (256) 396
- Bouges, B.
Réaction limitante entre deux photoréactions du Système II chez *Chloralla* (256) 381
- Boveris, A., Erecińska, M. and Wagner, M.
Reduction kinetics of cytochromes b (256) 223
- Brill, W. J., see Davis, L. C. (256) 512
- Brill, W. J., see Shah, V. K. (256) 498
- Brocklehurst, E. S., see Wilson, D. F. (256) 277
- Buchanan, B. B., see Shanmugam, K. T. (256) 477
- Bursell, E., see Slack, E. (256) 287
- Carafoli, E., see Vasington, F. D. (256) 43
- Cellarius, R. A., see Peters, G. A. (256) 544
- Chaix, P., see Ferrandes, B. (256) 548
- von Chak, D., see Appenheimer, M. (256) 681
- Chance, B., see Strichartz, G. R. (256) 71
- Chaney, T. H., see Ke, B. (256) 345
- Cormier, M. J., see Hori, K. (256) 638
- Couchoud-Beaumont, P., see Azoulay, E. (256) 670
- Cramer, W. A. and Böhme, H.
High-potential cytochrome b-599 as a secondary quencher of chloroplast fluorescence in the presence of 3-(3,4-dichlorophenyl)-1,1-dimethylurea (256) 358
- Crespi, H. L., Smith, U., Gajda, L., Tissue, T. and Ammeraal, R. M.
Extraction and purification of ^1H , ^2H , and isotope hybrid algal cytochrome, ferredoxin and flavoprotein (256) 611
- Davis, L. C., Shah, V. K., Brill, W. J. and Orme-Johnson, W. H.
Nitrogenase. II. Changes in the EPR signal of Component I (iron-molybdenum protein) of *Azotobacter vinelandii* nitrogenase during repression and derepression (256) 512
- Davis, L. C., see Shah, V. K. (256) 498
- Degn, H., see Wohlrab, H. (256) 216
- Delrieu, M. J.
Changes in oxygen evolution induced by a long preillumination at 650 nm with *Chlorella pyrenoidosa* (256) 293
- DerVartanian, D. V., see Forget, P. (256) 600
- Detwiler, T. C.
Control of energy metabolism in platelets. The effects of thrombin and cyanide on glycolysis (256) 163
- Dilley, R. A., see Arntzen, C. J. (256) 85
- Dirks, M. P., see Amesz, J. (256) 370
- Donze, M., Haveman, J. and Schiereck, P.
Absence of Photosystem II in heterocysts

- of the blue-green alga *Anabaena* (256) 132
- Engl Van den, G. J., see Ames, J. (256) 370
- Erecińska, M., see Boveris, A. (256) 223
- Evans, M. C. W., see Telfer, A. (256) 625
- Farnia, G., see Azzi, A. (256) 619
- Ferrandes, B. and Chaix, P.
- Système cytochromique des membranes cytoplasmiques et des membranes mésosomique de *Bacillus subtilis* (256) 548
- Forget, P. and DerVartanian, D. V.
- The bacterial nitrate reductases: EPR studies on nitrate reductase A from *Micrococcus denitrificans* (256) 600
- Frisell, W. R., see Gorodetsky, M. (256) 582
- Gajda, L., see Crespi, H. L. (256) 611
- García, A. F., see Kerber, N. L. (256) 108
- Gazzotti, P., see Vasington, F. D. (256) 43
- Gedney, C. and Ostroy, S. E.
- The thermal decay of metarhodopsin II₃₈₀ in the frog retina (256) 577
- Gobbi, E., see Azzi, A. (256) 619
- Gorodetsky, M., Weiner, R. F. and Frisell, W. R.
- Complexing of riboflavin with the enolate form of barbituric acid (256) 582
- Grimmelmhuijzen, C. J. P. and Slater, E. C.
- The redox states of respiratory-chain components in rat-liver mitochondria. III. 'Cross-over points' in site III (256) 24
- Groot, G. S. P., see Kovac, L. (256) 55
- Haveman, J., see Donze, M. (256) 132
- Heath, R. L.
- Light requirements for proton movement by isolated chloroplasts as measured by the bromocresol purple indicator (256) 645
- Hiratsuka, T., see Uchida, K. (256) 132
- Homann, P. H.
- Actions of tetraphenylboron on the electron flow in Photosystem II of isolated chloroplasts (256) 336
- Honeycutt, R. C. and Krogmann, D. W.
- Further studies on the oxygen-reducing system of *Anabaena variabilis* (256) 467
- Hori, K., Nakano, Y. and Cormier, M. J.
- Studies on the bioluminescence of *Renilla reniformis*. XI. Location of the sulfate group in luciferyl sulfate (256) 638
- Huebner, J. S. and Tien, H. Ti.
- Electrical transients of a chloroplast bimolecular lipid membrane elicited by light flashes (256) 300
- Jolchine, G., see Reiss-Husson, F. (256) 440
- Kamiya, R., Maruyama, K., Kuroda, M., Kawamura, M. and Kikuchi, M.
- Mg-polymer of actin formed under the influence of β -actinin (256) 120
- Kanazawa, K., see Kanazawa, T. (256) 656
- Kanazawa, T., Kanazawa, K., Kirk, M. R. and Bassham, J. A.
- Regulatory effects of ammonia on carbon metabolism in *Chlorella pyrenoidosa* during photosynthesis and respiration (256) 656
- Katz, J. J., see Ballschmiter, K. (256) 307
- Kawamura, M., see Kamiya, R. (256) 120
- Ke, B., Vernon, L. P. and Chaney, T. H.
- Photoreduction of cytochrome b₅₅₉ in a Photosystem-II subchloroplast particle (256) 345
- Kerber, N. L., García, A. F., Vernon, L. P. and Raveed, D.
- Protein composition of intact and fractionated membranes isolated from dark and light grown cells of a blue green mutant of *Rhodospirillum rubrum* (BG₁) (256) 108
- Kikuchi, M., see Kamiya, R. (256) 120
- Kirk, M. R., see Kanazawa, T. (256) 656
- Kovac, L., Groot, G. S. P. and Racker, E.
- Proton translocation and potassium ion translocation across the mitochondrial membrane of respiring and respiration-deficient yeasts (256) 55
- Krogmann, D. W., see Honeycutt, R. C. (256) 467
- Kuroda, M., see Kamiya, R. (256) 120
- Larkum, A. W. D. and Bonner, W. D.
- Light-induced oxidation of cytochrome f in isolated chloroplasts of *Pisum sativum* (256) 385
- Larkum, A. W. D. and Bonner, W. D.
- Light-induced absorbance changes of P158 in intact chloroplasts (256) 396
- Lebeault, J. M., see Azoulay, E. (256) 670
- Lee, I. Y. and Slater, E. C.
- Effect of pH on cytochromes b in ATP-Mg submitochondrial particles (256) 587
- Lee, I.-Y., see Slater, E. C. (256) 14
- Lindsay, J. G., see Wilson, D. F. (256) 277
- Lundberg, P., see Vallin, I. (256) 179
- Lundberg, P., see Vallin, I. (256) 191
- Maruyama, K., see Kamiya, R. (256) 120
- Mohri, H., see Ogawa, K. (256) 142
- Mortenson, L. E., see Multani, J. S. (256) 66
- Muijsers, A. O., see Tiesjema, R. H. (256) 32
- Muijsers, A. O., see Van Buuren, K. J. H. (256) 243
- Multani, J. S. and Mortenson, L. E.
- Circular dichroism spectra of hydrogenase from *Clostridium pasteurianum* W5, (256) 66
- Nakano, Y., see Hori, K. (256) 638
- Nicholls, P., see Van Buuren, K. J. H. (256) 258
- Ogawa, K. and Mohri, H.
- Studies on flagellar ATPase from sea urchin spermatozoa: I. Purification and some properties of the enzyme (256) 142
- Okamura, Y., see Shibata, N. (256) 565
- Oppendoerf, F. R., see Berden, J. A. (256) 594
- Orme-Johnson, W. H., see Davis, L. C. (256) 512
- Ostroy, S. E., see Gedney, C. (256) 577
- Peters, G. A. and Cellarius, R. A.
- The ubiquinone homologue of the green mutant of *Rhodospseudomonas spheroides* (256) 544
- Peters, G. A., see Arntzen, C. J. (256) 85
- Popinigis, J., Wrzółkowska, T., Takahashi, Y. and Williams, C. H.
- 'Crystal-like structures' of boiled beef heart mitochondria (256) 607
- Puszkin, S. and Berl, S.
- Actomyosin-like protein from brain: Separation

- tion and characterization of the actin-like component (256) 695
- Racker, E., see Kovac, L. (256) 55
- Raved, D., see Kerber, N. L. (256) 108
- Reiss-Husson, F. and Jolchine, G.
Purification and properties of a photo-synthetic reaction center isolated from various chromatophore fractions of *Rhodospseudomonas spheroides* Y (256) 440
- Renger, G.
The action of 2-anilinothiophenes as accelerators of the deactivation reactions in the water-splitting enzyme system of photosynthesis (256) 428
- Renger, G., see Siggel, U. (256) 328
- Rigano, C. and Violante, U.
Effect of heat treatment on the activity in vitro of nitrate reductase from *Cyanidium caldarium* (256) 524
- Rumberg, B., see Siggel, U. (256) 328
- Sauer, K., see Sun, A. S. K. (256) 409
- Schiereck, P., see Donze, M. (256) 132
- Senda, N., see Shibata, N. (256) 565
- Shah, V. K., Davis, L. C. and Brill, W. J.
Nitrogenase. I. Repression and derepression of the iron-molybdenum and iron proteins of nitrogenase in *Azotobacter vinelandii* (256) 498
- Shah, V. K., see Davis, L. C. (256) 512
- Shanmugam, K. T. and Arnon, D. I.
Effect of ferredoxin on bacterial photophosphorylation (256) 487
- Shanmugam, K. T., Buchanan, B. B. and Arnon, D. I.
Ferredoxins in light- and dark-grown photosynthetic cells with special reference to *Rhodospirillum rubrum* (256) 477
- Shaw, E. R., see Arntzen, C. J. (256) 85
- Shibata, N., Tasumi, N., Tanaka, K., Okamura, Y. and Senda, N.
A contractile protein possessing Ca^{2+} sensitivity (natural actomyosin) from leucocytes. Its extraction and some of its properties (256) 565
- Siggel, U., Renger, G., Stiehl, H. H. and Rumberg, B.
Evidence for electronic and ionic interaction between electron transport chains in chloroplasts (256) 328
- Slack, E. and Bursell, E.
A convenient micromethod for the estimation of mitochondrial cytochrome c (256) 287
- Slater, E. C., Lee, I.-Y., van Gelder, B. F., Albracht, S. P. J. and Berden, J. A.
The effect of ATP on the EPR spectrum of phosphorylating sub-mitochondrial particles (256) 14
- Slater, E. C., see Albracht, S. P. J. (256) 1
- Slater, E. C., see Berden, J. A. (256) 199
- Slater, E. C., see Berden, J. A. (256) 594
- Slater, E. C., see Grimmelikhuijzen, C. J. P. (256) 24
- Slater, E. C., see Lee, I. Y. (256) 587
- Slooten, L.
Reaction center preparations of *Rhodospseudomonas spheroides*: Energy transfer and structure (256) 452
- Smith, U., see Crespi, H. L. (256) 611
- Sorger, G. J., see Subramanian, K. N. (256) 533
- Stiehl, H. H., see Siggel, U. (256) 328
- Strichartz, G. R. and Chance, B.
Absorbance changes at 520 nm caused by salt addition to chloroplast suspensions in the dark (256) 71
- Subramanian, K. N. and Sorger, G. J.
The role of molybdenum in the synthesis of Neurospora nitrate reductase (256) 533
- Sun, A. S. K. and Sauer, K.
Pigment systems and electron transport in chloroplasts. II. Emerson enhancement in broken spinach chloroplasts (256) 409
- Takahashi, Y., see Popinigis, J. (256) 607
- Tamburro, A. M., see Azzi, A. (256) 619
- Tanaka, K., see Shibata, N. (256) 565
- Tanaka, K., see Uchida, K. (256) 132
- Tatsumi, N., see Shibata, N. (256) 565
- Telfer, A. and Evans, M. C. W.
Evidence for chemiosmotic coupling of electron transport to ATP synthesis in spinach chloroplasts (256) 625
- Tien, H. Ti., see Huebner, J. S. (256) 300
- Tiesjema, R. H., Muijers, A. O. and van Gelder, B. F.
Biochemical and biophysical studies on cytochrome aa_3 . IV. Some properties of oxygenated cytochrome aa_3 (256) 32
- Tiozzo, R., see Vasington, F. D. (256) 43
- Tissue, T., see Crespi, H. L. (256) 611
- Uchida, K., Tanaka, K. and Hiratsuka, T.
Reaction of 2-bromoacetamide-4-nitrophenol with heavy meromyosin ATPase (256) 132
- Vallin, I. and Lundberg, P.
Phosphate acceptor specificity during oxidative phosphorylation in submitochondrial particles (256) 179
- Vallin, I. and Lundberg, P.
NAD⁺-induced phosphate acceptor specificity in submitochondrial systems (256) 191
- Van Buuren, K. J. H., Zuurendonk, P. F., Van Gelder, B. F. and Muijers, A. O.
Biochemical and biophysical studies on cytochrome aa_3 . V. Binding of cyanide to cytochrome aa_3 (256) 243
- Van Buuren, K. J. H., Nicholls, P. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome aa_3 . VI. Reaction of cyanide with oxidized and reduced enzyme (256) 258
- Van Gelder, B. F., see Slater, E. C. (256) 14
- Van Gelder, B. F., see Tiesjema, R. H. (256) 32
- Van Gelder, B. F., see Van Buuren, K. J. H. (256) 243
- Van Gelder, B. F., see Van Buuren, K. J. H. (256) 258
- Van Heerikhuizen, H., see Albracht, S. P. J. (256) 1

- Vasington, F. D., Gazzotti, P., Tiozzo, R. and Carafoli, E.
The effect of ruthemium red on calcium transport and respiration in rat liver mitochondria (256) 43
- Vernon, L. P., see Ke, B. (256) 345
- Vernon, L. P., see Kerber, N. L. (256) 108
- Violante, U., see Rigano, C. (256) 524
- Visser, J. W. M., see Ames, J. (256) 370
- Wagner, M., see Boveris, A. (256) 223
- Weber, H. H., see Appenheimer, M. (256) 681
- Weiner, R. F., see Gorodetsky, M. (256) 582
- Williams, C. H., see Popinigis, J. (256) 607
- Wilson, D. F., Lindsay, J. G. and Brocklehurst, E. S.
Heme-heme interaction in cytochrome oxidase (256) 277
- Wohlrab, H. and Degn, H.
Retarded reduction of cytochrome b_5 following the aerobic-anaerobic transition of intact rat liver mitochondria (256) 216
- Wrzółkowska, T., see Popinigis, J. (256) 607
- Zuurendonk, P. F., see Van Buuren, K. J. H. (256) 243