

AUTHOR INDEX

- Albracht, S. P. J. and Subramanian, J.
The number of Fe atoms in the iron-sulphur centers of the respiratory chain (462) 36
- Amesz, J., see de Grooth, B. G. (462) 237
- Amesz, J., see de Grooth, B. G. (462) 247
- Andrews, S., Cox, G. B. and Gibson, F.
The anaerobic oxidation of dihydroorotate by *Escherichia coli* K-12 (462) 153
- Apel, K.
The light-harvesting chlorophyll a/b · protein complex of the green alga *Acetabularia mediterranea*. Isolation and characterization of two subunits (462) 390
- Bailin, G.
Phosphorylation of an actin · tropomyosin · troponin complex from human skeletal muscle (462) 689
- Balboni, E. and Hecht, R. I.
Studies on the inner mitochondrial membrane localization of proline dehydrogenase (462) 171
- Baltscheffsky, H., see Nordlund, S. (462) 187
- Barouch, Y. and Clayton, R. K.
Ubiquinone reduction and proton uptake by chromatophores of *Rhodospseudomonas sphaeroides* R-26. Periodicity of two in consecutive light flashes (462) 785
- Bartoli, B. M., see Dani, A. (462) 781
- Beddard, G. S. and Porter, G.
Excited state annihilation in the photosynthetic unit (462) 63
- Beinert, H. and Shaw, R. W.
On the identity of the high spin heme components of cytochrome c oxidase (462) 121
- Bigon, E., see Bruni, A. (462) 323
- Böger, P., see Lach, H.-J. (462) 12
- Böhme, H., see Lach, H.-J. (462) 12
- Bolen, D. W., see Cerretti, D. P. (462) 748
- Bonner, Jr., W. D., see Rich, P. R. (462) 501
- Bouges-Bocquet, B.
Cytochrome f and plastocyanin kinetics in *Chlorella pyrenoidosa*. I. Oxidation kinetics after a flash (462) 362
- Bouges-Bocquet, B.
Cytochrome f and plastocyanin kinetics in *Chlorella pyrenoidosa*. II. Reduction kinetics and electric field increase in the 10 ms range (462) 371
- Brochon, J. C., Wahl, Ph., Jallon, J. M. and Iwatsubo, M.
Pulse fluorimetry study of energy transfers between tryptophan residues and NADPH in beef liver glutamate dehydrogenase complexes (462) 759
- Bruni, A., Frigeri, L. and Bigon, E.
Gold lability of membrane-bound F_1 -ATPase (462) 323
- Bryła, J. and Dzik, J. M.
Utilization of glutamate for phosphoenolpyruvate and aspartate synthesis in kidney cortex mitochondria of rabbit (462) 273
- Butler, W. L. and Strasser, R. J.
Does the rate of cooling affect fluorescence properties of chloroplasts at -196°C ? (462) 283
- Butler, W. L., see Ley, A. C. (462) 290
- Butler, W. L., see Strasser, R. J. (462) 295
- Butler, W. L. see Strasser, R. J. (462) 307
- Cerretti, D.P., Dorsey, J. K. and Bolen, D. W.
Thermal behaviour of HeLa and KB cells in suspension and attached to glass (462) 748
- Clayton, R. K., see Barouch, Y. (462) 785
- Cox, G. B., Crane, F. L., Downie, J. A. and Radik, J.
Different effects of inhibitors on two mutants of *Escherichia coli* K12 affected in the F_0 portion of the adenosine triphosphatase complex (462) 113
- Cox, G. B., see Andrews, S. (462) 153
- Crane, F. L., see Cox, G. B. (462) 113
- Croze, E., see Horton, P. (462) 86
- Dani, A., Bartoli, G. M. and Galeotti, T.
The operation of the malate-aspartate shuttle in the reoxidation of glycolytic NADH in slices of fetal rat liver (462) 781
- De Grooth, B. G. and Amesz, J.
Electrochromic absorbance changes of photosynthetic pigments in *Rhodospseudomonas sphaeroides*. I. Stimulation by secondary electron transport at low temperature (462) 237
- De Grooth, B. G. and Amesz, J.
Electrochromic absorbance changes of photosynthetic pigments in *Rhodospseudomonas sphaeroides*. II. Analysis of the band shifts of carotenoid and bacteriochlorophyll (462) 247
- Demeter, S. and Ke, B.
Electrochemical and spectro-kinetic evidence for an intermediate electron acceptor in Photosystem I (462) 770
- Desai, T. S., Tatake, V. G. and Sane, P. V.
Characterization of the low temperature thermoluminescence band Z_1 . An explanation

- tion for its variable nature (462) 775
- Ditre, C. M., see Erecińska, M. (462) 20
- Dorsey, J. K., see Cerretti, D. P. (462) 748
- Downie, J. A., see Cox, G. B. (462) 113
- Dutton, P. L., see Prince, R. C. (462) 467
- Dutton, P. L. see Prince, R. C. (462) 731
- Dzik, J. M., see Bryła, J. (462) 273
- Edwards, G. E., see Huber, S. C. (462) 583
- Edwards, G. E., see Huber, S. C. (462) 603
- Erecińska, M., see Kilpatrick, L. (462) 515
- Erecińska, M., Stubbs, M., Miyata, Y., Ditre, C. M. and Wilson, D. F.
Regulation of cellular metabolism by intracellular phosphate (462) 20
- Eriksson, U., see Nordlund, S. (462) 187
- Flemming, K., see Mull, R. H. (462) 671
- Fowler, C. F.
Proton evolution from Photosystem II. Stoichiometry and mechanistic considerations (462) 414
- Frigeri, L., see Bruni, A. (462) 323
- Fuchs, F.
Cooperative interactions between calcium-binding sites on glycerinated muscle fibers. The influence of cross-bridge attachment (462) 314
- Galeotti, T., see Dani, A. (462) 781
- Gaudemer, Y., see Le Quoc, D. (462) 131
- Gibson, F., see Andrews, S. (462) 153
- Govindjee, see Khanna, R. (462) 208
- Govindjee, see Siggel, U. (462) 196
- Haugaard, N., see Kovachich, G. B. (462) 493
- Hecht, R. I., see Balboni, E. (462) 171
- Hess, B., see Roberts, H. (462) 215
- Hoarau, J., Remy, J. and Leclerc, J.-C.
Hétérogénéité des variations spectrales photoinduites vers 700 nm observées sur les membranes chlorophylliennes et les complexes chlorophylle-protéines isolés de divers organismes photosynthétiques (Heterogeneity of photoinduced spectral changes near 700 nm observed with chlorophyllous membranes and chlorophyll-protein complexes isolated from different photosynthesizing organisms) (462) 659
- Hooper, A. B., Terry, K. R. and Maxwell, P. C.
Hydroxylamine oxidoreductase of *Nitrosomonas*. Oxidation of diethyldithiocarbamate concomitant with stimulation of nitrite synthesis (462) 141
- Horton, P. and Crose, E.
The relationship between the activity of chloroplast Photosystem II and the mid-point oxidation-reduction potential of cytochrome b-559 (462) 86
- Horáth, I., see König, T. (462) 380
- Hoshino, M.
Interactions of Tetrahymena dynein with microtubule protein: tubulin-induced stimulation of dynein ATPase activity (462) 49
- Houssier, C., see Rasquain, A. (462) 622
- Huber, S. C. and Edwards, G. E.
Transport in C_4 mesophyll chloroplasts. Characterization of the pyruvate carrier (462) 583
- Huber, S. C. and Edwards, G. E.
Transport in C_4 mesophyll chloroplasts. Evidence for an exchange of inorganic phosphate and phosphoenolpyruvate (462) 603
- Hulkower, S., see Schmid, R. (462) 177
- Inglelew, W. J., see Rich, P. R. (462) 501
- Iwatsubo, M., see Brochon, J. C. (462) 759
- Jagendorf, A. T., see Schmid, R. (462) 177
- Jallon, J. M., see Brochon, J. C. (462) 759
- Joliot, A., see Joliot, P. (462) 559
- Joliot, P. and Joliot, A.
Evidence for a double hit process in Photosystem II based on fluorescence studies (462) 559
- Junge, W., Schaffernicht, H. and Nelson, N.
On the mutual orientation of pigments in Photosystem I particles from green plants (462) 73
- Junge, W., see Wagner, R. (462) 259
- Kane, J. J., see Peng, C.-F. (462) 403
- Ke, B., see Demeter, S. (462) 770
- Khanna, R., Govindjee and Wydrzynski, T.
Site of bicarbonate effect in Hill reaction. Evidence from the use of artificial electron acceptors and donors (462) 208
- Khanna, R., see Siggel, U. (462) 196
- Kilpatrick, L. and Erecińska, M.
Mitochondrial respiratory chain of *Tetrahymena pyriformis*. The properties of sub-mitochondrial particles and the soluble b and c type pigments (462) 515
- Klingenberg, M., see von Jagow, G. (462) 549
- Kocsis, B., see König, T. (462) 380
- Kolb, H. J., see von Jagow, G. (462) 549
- König, T., Kocsis, B., Mészáros, L., Nahm, K., Zoltán, S. and Horváth, I.
Interaction of a synthetic polyanion with rat liver mitochondria (462) 380
- Kovachich, G. B., Schina, M. J. and Haugaard, N.
Inhibitory effect of high oxygen pressure on potassium-induced activation of pyruvate dehydrogenase and glucose metabolism in rat brain slices (462) 493
- Kupriyanov, V. V., Pobochin, A. S. and Luzikov, V. N.
Steady-state kinetics of electron transfer through cytochrome chain of uncoupled

- submitochondrial particles. I. General kinetic analysis (462) 1
- Lach, H.-J., Böhme, H. and Böger, P.
Some photoreactions of isolated cytochrome b-559 (462) 12
- Leclerc, J.-C., see Hoarau, H. (462) 659
- Le Quoc, D., Le Quoc, K. and Gaudemer, Y.
Influence of the energetic state of rat liver mitochondria on the sensitivity of the phosphate carrier towards SH reagents (462) 131
- Le Quoc, K., see Le Quoc, D. (462) 131
- Ley, A. C. and Butler, W. L.
Energy transfer from Photosystem II to Photosystem I in Porphyridium cruentum (462) 290
- Litvin, F. F., see Sineshchekov, V. A. (462) 450
- Luzikov, V. N., see Kupriyanov, V. V. (462) 1
- Marres, C. A. M. and Slater, E. C.
Polypeptide composition of purified QH₂: cytochrome c oxidoreductase from beef-heart mitochondria (462) 531
- Matsuura, K. and Nishimura, M.
Light- and diffusion-potential-induced shift of carotenoid spectrum in reconstituted vesicles of *Rhodospseudomonas sphaeroides* (462) 700
- Maxwell, P. C., see Hooper, A. B. (462) 141
- Mészáros, L., see König, T. (462) 380
- Miyata, Y., see Erecińska, M. (462) 20
- Mönig, H., see Mull, R. H. (462) 671
- Moore, A. L. see Rich, P. R. (462) 501
- Mull, R. H. Schgaguler, M., Mönig, H., Voigt, T. and Flemming, K.
Characterization of microsomal electron transport components from control, phenobarbital- and 3-methylcholanthrene-treated mice. III. Improved resolution and quantitation of major components in ammonium sulfate fractions from total liver microsomes (462) 671
- Muller, J. L. M., Rosing, J. and Slater, E. C.
The binding of autovertin to isolated F₁ (mitochondrial ATPase) (462) 422
- Murphy, M. L., see Peng, C.-F. (462) 403
- Nahm, K., see König, T. (462) 380
- Nelson, N., see Junge, W. (462) 73
- Nishimura, M., see Matsuura, K. (462) 700
- Nordlund, S., Eriksson, U. and Baltscheffsky, H.
Necessity of a membrane component for nitrogenase activity in *Rhodospirillum rubrum* (462) 187
- Ohno, K., Takeuchi, Y. and Yoshida, M.
Effect of light adaption on the photoreaction of bacteriorhodopsin from *Halobacterium halobium* (462) 575
- Papa, S., see Paradies, G. (462) 333
- Paradies, G. and Papa, S.
On the kinetics and substrate specificity of the pyruvate translocator in rat liver mitochondria (462) 333
- Peng, C.-F., Straub, K. D., Kane, J. J., Murphy, M. L. and Wadkins, C. L.
Effects of adenine nucleotide translocase inhibitors on dinitrophenol-induced Ca²⁺ efflux from pig heart mitochondria (462) 403
- Porter, G., see Beddard, G. S. (462) 63
- Pobochin, A. S., see Kupriyanov, V. V. (462) 1
- Prince, R. C. and Dutton, P. L.
Single and multiple turnover reactions in the ubiquinone-cytochrome b-c₂ oxidoreductase of *Rhodospseudomonas sphaeroides*. The physical chemistry of the major electron donor to cytochrome c₂, and its coupled reactions (462) 731
- Prince, R. C., Tiede, D.-M., Thornber, J. P. and Dutton, P. L.
Spectroscopic properties of the intermediary electron carrier in the reaction center of *Rhodospseudomonas viridis*. Evidence for its interaction with the primary acceptor (462) 467
- Radik, J., see Cox, G. B. (462) 113
- Rasquain, A., Houssier, C. and Sironval, C.
The dimerization of protochlorophyll pigments in nonpolar solvents (462) 622
- Remy, R., see Hoarau, J. (462) 659
- Renger, G., see Siggel, U. (462) 196
- Rich, P. P., Moore, A. L., Ingledew, W. J. and Bonner, Jr., W. D.
EPR studies of higher plant mitochondria. I. Ubisemiquinone and its relation to alternative respiratory oxidation (462) 501
- Riccio, P., see von Jagow, G. (462) 549
- Roberts, H. and Hess, B.
Kinetics of cytochrome c oxidase from yeast. Membrane-facilitated electrostatic binding of cytochrome c showing a specific interaction with cytochrome c oxidase and inhibition by ATP (462) 215
- Rosing, J., see Muller, J. L. M. (462) 422
- Saari, H. T., see Wikström, M. K. F. (462) 347
- Sane, P. V., see Desai, T. S. (462) 775
- Schaffernicht, H., see Junge, W. (462) 73
- Schägger, H., see von Jagow, G. (462) 549
- Schapendonk, A. H. C. M. and Vredenberg, W. J.
Salt-induced absorbance changes of P-515 in broken chloroplasts (462) 613
- Schgaguler, M., see Mull, R. H. (462) 671
- Schmid, R., Jagendorf, A. T. and Hulkower, S.
Arginine modifiers as energy transfer inhibitors in photophosphorylation (462) 177
- Schina, M. J., see Kovachich, G. B. (462) 493
- Shafferman, A. and Stein, G.
Conformation-dependent participation of

- the protein in electron equivalent transfer to cytochrome c (462) 161
- Sharrock, M. and Yonetani, T.
Low-temperature flash photolysis studies of cytochrome oxidase and its environment (462) 718
- Shaw, R. W., see Beinert, H. (462) 121
- Siggel, U., Khanna, R., Renger, G. and Govindjee
Investigation of the absorption changes of the plastoquinone system in broken chloroplasts. The effect of bicarbonate-depletion (462) 196
- Sineshchekov, V. A. and Litvin, F. F.
Luminescence of bacteriorhodopsin from *Halobacterium halobium* and its connection with the photochemical conversions of the chromophore (462) 450
- Sironval, C., see Rasquain, A. (462) 622
- Slater, E. C., see Marres, C. A. M. (462) 531
- Slater, E. C., see Muller, J. L. M. (462) 422
- Slater, E. C., see Verschoor, G. J. (462) 438
- Stein, G., see Shafferman, A. (462) 161
- Strasser, R. J., see Butler, W. L. (462) 283
- Strasser, R. J. and Butler, W. L.
The yield of energy transfer and the spectral distribution of excitation energy in the photochemical apparatus of flashed bean leaves (462) 295
- Strasser, R. J. and Butler, W. L.
Fluorescence emission spectra of Photosystem I, Photosystem II and the light-harvesting chlorophyll a/b complex of higher plants (462) 307
- Straub, K. D., see Peng, C.-F. (462) 403
- Stubbs, M., see Erecińska, M. (462) 20
- Subramanian, J., see Albracht, S. P. J. (462) 36
- Swysen, C., see Symons, M. (462) 706
- Sybesma, C., see Symons, M. (462) 706
- Symons, M., Swysen, C. and Sybesma, C.
The light-induced carotenoid absorbance changes in *Rhodopseudomonas sphaeroides*. An analysis and interpretation of the band shifts (462) 706
- Takeuchi, Y., see Ohno, K. (462) 575
- Tatake, V. G., see Desai, T. S. (462) 775
- Terry, K. R., see Hooper, A. B. (462) 141
- Thornber, J. P., see Prince, R. C. (462) 467
- Tiede, D.-M., see Prince, R. C. (462) 467
- Van der Sluis, P. R., see Verschoor, G. J. (462) 438
- Van Metter, R. L.
Excitation energy transfer in the light-harvesting chlorophyll a/b · protein (462) 642
- Verschoor, G. J., van der Sluis, P. R. and Slater, E. C.
The binding of autoveritin to isolated β subunit of F_1 (mitochondrial ATPase). Stoichiometry of β subunit in F_1 (462) 438
- Voigt, T., see Mull, R. H. (462) 671
- Von Jagow, G., Schagger, H., Riccio, P., Klingenberg, M. and Kolb, H. J.
 $b \cdot c_1$ complex from beef heart: hydrodynamic properties of the complex prepared by a refined hydroxyapatite chromatography in Triton X-100 (462) 549
- Vredenberg, W. J., see Schapendonk, A. H. C. M. (462) 613
- Wadkins, C. L., see Peng, C.-F. (462) 403
- Wagner, R. and Junge, W.
Gated proton conduction via the coupling factor of photophosphorylation modified by N,N-orthophenyldimaleimide (462) 259
- Wahl, Ph., see Brochon, J. C. (462) 759
- Wikström, M. K. F. and Saari, H. T.
The mechanism of energy conservation and transduction by mitochondrial cytochrome c oxidase (462) 347
- Wilson, D. F., see Erecińska, M. (462) 20
- Wohlrab, H.
The divalent cation requirement of the mitochondrial glycerol-3-phosphate dehydrogenase (462) 102
- Wydrzynski, T., see Khanna, R. (462) 208
- Yonetani, T., see Sharrock, M. (462) 718
- Yoshida, M., see Ohno, K. (462) 575
- Zoltán, S., see König, T. (462) 380