

AUTHOR INDEX

- Albuquerque, A. A., see Carvalho Guerra, F. (234) 222
- Alexandre, A., see Rossi, C. R. (234) 311
- Amesz, J. and Visser, J. W. M.
Light-induced shifts in pigment absorption in green, red and blue-green algae (234) 62
- Anderson, J. M., see Boardman, N. K. (234) 126
- Antunes-Madeira, M. C., see Carvalho, A. P. (234) 210
- Azzone, G. F., see Dell'Antone, P. (234) 541
- Baillie, R. D., Hou, C. and Bragg, P. D.
The preparation and properties of a solubilized respiratory complex from *Escherichia coli* (234) 46
- Barouch, W. W. and Moos, C.
Effect of temperature on actin activation of heavy meromyosin ATPase (234) 183
- Bartsch, R. G., see Meyer, T. E. (234) 266
- Bartsch, R. G., see Kennel, S. J. (234) 458
- Baszynski, T., Brand, J., Krogmann, D. W. and Crane, F. L.
Plastocyanin participation in chloroplast Photosystem I (234) 537
- Beasley, C. A., see Ting, I. P. (234) 324
- Bendall, D. S. and Sofrová, D.
Reactions at 77°K in Photosystem 2 of green plants (234) 371
- Bertsch, W., see Gregory, R. P. F. (234) 330
- Bishop, N. I. and Wong, J.
Observations on Photosystem II mutants of *Scenedesmus*: Pigments and proteinaceous components of the chloroplasts (234) 433
- Blokzijl-Homan, M. F. J. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome a_3 . III. The EPR spectrum of NO-ferrocycytochrome a_3 (234) 493
- Blumenfeld, L. A., see Koltover, V. K. (234) 306
- Boardman, N. K., Anderson, J. M. and Hiller, R. G.
Photooxidation of cytochromes in leaves and chloroplasts at liquid-nitrogen temperature (234) 126
- Boardman, N. K., see Thorne, S. W. (234) 113
- Bonaventura, C. and Kindergan, M.
Kinetic and spectral resolution of two components of delayed emission from *Chlorella pyrenoidosa* (234) 249
- Bouges, B.
Action de faibles concentrations d'hydroxylamine sur l'émission d'oxygène des algues *Chlorella* et des chloroplastes d'épinards, (234) 103
- Bragg, P. D., see Baillie, R. D. (234) 46
- Brand, J., see Baszynski, T. (234) 537
- Bruschi-Heriaud, M., see Le Gall, J. (234) 499
- Butler, W. L., see Erixon, K. (234) 381
- Carignani, G., see Rossi, C. R. (234) 311
- Carvalho, A. P., Madeira, V. M. C. and Antunes-Madeira, M. C.
Effect of potentiators of muscular contraction on contractile and enzymatic activities of sarcolemma (234) 210
- Carvalho Guerra, F., Albuquerque, A. A., Santos Mota, J. M. and Van Golde, L. M. G.
A rapid procedure for the isolation of rat liver mitochondria (234) 222
- Chaix, P., see Gilarde, A. (234) 446
- Champigny, M. L. et Miginiac-Maslow, M.
Relations entre l'assimilation photosynthétique de CO_2 et la photophosphorylation des chloroplastes isolés. I. Stimulation de la fixation de CO_2 par l'antimycine A, antagoniste de son inhibition par le phosphate (234) 335
- Champigny, M. L., see Miginiac-Maslow, M. (234) 344
- Collona, R., see Dell'Antone, P. (234) 541
- Crane, F. L., see Baszynski, T. (234) 537
- Czerlinski, G. H. and Dar, K.
On the electron-transfer-coupled proton release of cytochrome c (234) 57
- Dar, K., see Czerlinski, G. H. (234) 57
- DerVartanian, D. V., see Le Gall, J. (234) 499
- DerVartanian, D. V., see Le Gall, J. (234) 525
- Djavadi-Ohanian, L., see Gilarde, A. (234) 446
- De Klerk, H., see Reiss-Husson, F. (234) 73
- Dell'Antone, P., Collona, R. and Azzone, G. F.
Metachromatic effects and binding of organic cations to energized submitochondrial particles (234) 541
- Du, J. T., see Guarnieri, M. (234) 28
- Eggelte, T. A., see Van Buuren, K. J. H. (234) 468
- Erixon, K. and Butler, W. L.
The relationship between Q, C-550 and cytochrome b 559 in photoreactions at -196° in chloroplasts (234) 381
- Ferrandes, B., see Frehel, C. (234) 226
- Frehel, C., Ferrandes, B. et Ryter, A.
Réactions d'oxydo-réduction au niveau des membranes cytoplasmiques et mésosomiques de *Bacillus subtilis* (234) 226
- Gautheron, D., see Sabadie-Pialoux, N. (234) 9
- Gilarde, A., Djavadi-Ohanian, L., Labbe, P. et Chaix, P.
Effet de l'accumulation de Zn-protoporphyrine par la cellule de levure sur la synthèse et le fonctionnement de son système respiratoire (234) 446
- Giling, L. J., see Katan, M. B. (234) 242
- Govindjee, see Papageorgiou, G. (234) 428
- Gregory, R. P. F., Raps, S. and Bertsch, W.
Are specific chlorophyll-protein complexes required for photosynthesis? (234) 330

- Guarnieri, M., Johnson, R. M. and Du, J. T.
The unsaturated fatty acid content of mitochondria in relation to oxidation of exogenous reduced nicotinamide-adenine dinucleotide (234) 28
- Harris, B., see Osmond, C. B. (234) 270
- Heldt, H. W. and Sauer, F.
The inner membrane of the chloroplast envelope as the site of specific metabolite transport (234) 83
- Hiller, R. G., see Boardman, N. K. (234) 126
- Holtzman, D. and Moore, C. L.
A micro-method for the study of oxidative phosphorylation (234) 1
- Hou, C., see Baillie, R. D. (234) 46
- Ikegami, I., see Kimimura, M. (234) 92
- Ikkai, T. and Ooi, T.
Effects of pressure on ATPase of myosin A, heavy meromyosin, and Subfragment 1 (234) 190
- Jasaitis, A. A., Kuliene, V. V. and Skulachev, V. P.
Anilinnaphthalenesulfonate fluorescence changes induced by non-enzymic generation of membrane potential in mitochondria and submitochondrial particles (234) 177
- Jauneau, E., see Reiss-Husson, F. (234) 73
- Jensen, R. G.
Activation of CO₂ fixation in isolated spinach chloroplasts (234) 360
- Johnson, R. M., see Guarnieri, M. (234) 28
- Jolchine, G., see Reiss-Husson, F. (234) 73
- Jolley, K., see Ting, I. P. (234) 324
- Kamen, M. D., see Schmidt, G. L. (234) 70
- Kamen, M. D., see Reiss-Husson, F. (234) 73
- Kamen, M. D., see Oelze, J. (234) 137
- Kamen, M. D., see Kennel, S. J. (234) 458
- Kaniuga, Z., see Staron, K. (234) 297
- Katan, M. B., Giling, L. J. and Van Voorst, J. D. W.
pH dependence of the transient absorptions in the flash photolysis of 3-methylflavin (234) 242
- Katoh, S., see Kimimura, M. (234) 92
- Kawashima, N., see Kwok, S.-Y. (234) 293
- Kennel, S. J., Bartsch, R. G. and Kamen, M. D.
Iron-containing proteins in Chromatium. I. Solubilization of membrane-bound cytochrome (234) 458
- Kimimura, M., Katoh, S., Ikegami, I. and Takamiya, A.
Inhibitory site of carbonyl cyanide m-chlorophenylhydrazone in the electron transfer system of the chloroplasts (234) 92
- Kindergan, M., see Bonaventura, C. (234) 249
- Knowles, C. J. and Smith, L.
Effect of osmotic pressure of the medium on the volume of intact cells of *Azotobacter vinelandii* and on the rate of respiration (234) 144
- Knowles, C. J. and Smith, L.
The relationship between substrate-induced respiration and swelling in *Azotobacter vinelandii* (234) 153
- Kohen, E., Kohen, C. and Thorell, B.
Rapid microfluorimetry of enzyme reactions in single living cells (234) 531
- Kohen, C., see Kohen, E. (234) 531
- Koltover, V. K., Reichman, L. M., Yasaitis, A. A. and Blumenfeld, L. A.
A study of spin-probe solubility in mitochondrial membranes correlated with ATP-dependent conformational changes (234) 306
- Krogmann, D. W., see Baszynski, T. (234) 537
- Kuliene, V. V., see Jesaitis, A. A. (234) 177
- Kwok, S.-Y., Kawashima, N. and Wildman, S. G.
Specific effect of ribose 1,5-diphosphate on the solubility of tobacco Fraction I protein (234) 293
- Labbe, P., see Gilarde, A. (234) 446
- Land, E. J. and Swallow, A. J.
One-electron reactions in biochemical systems as studied by pulse radiolysis. IV. Oxidation of dihydronicotinamide-adenine dinucleotide (234) 34
- Lee, J.-P., see Le Gall (234) 525
- Le Gall, J., Bruchi-Heriaud, M. and Der-Vartanian, D. V.
Electron paramagnetic resonance and light absorption studies on c-type cytochromes of the anaerobic sulfate reducer *Desulfovibrio* (234) 499
- Le Gall, J., DerVartanian, D. V., Spilker, E., Lee, J.-P. and Peck, Jr., H. D.
Evidence for the involvement of non-heme iron in the active site of hydrogenase from *Desulfovibrio vulgaris* (234) 525
- Madeira, V. M. C., see Carvalho, A. P. (234) 210
- Malkin, S.
Fluorescence induction studies in isolated chloroplasts. III. On the electron-transfer equilibria in the pool of electron acceptors of Photosystem II (234) 415
- Mandell, G. L. and Sullivan, G. W.
Pyridine nucleotide oxidation by intact human polymorphonuclear neutrophils (234) 43
- Meyer, T. E., Sharp, J. J. and Bartsch, R. G.
Isolation and properties of rubredoxin from the photosynthetic green sulfur bacteria (234) 266
- Miginiac-Maslow, M.
Etude de la photophosphorylation endogène des chloroplastes isolés d'épinard (234) 353
- Miginiac-Maslow, M. et Champigny, M. L.
Relations entre l'assimilation photosynthétique du CO₂ et la photophosphorylation des chloroplastes isolés. II. L'utilisation de l'ATP dans l'assimilation photosynthétique du CO₂ (234) 344
- Miginiac-Maslow, M., see Champigny, M. L. (234) 335
- Moore, C. L., see Holtzman, D. (234) 1
- Moos, C., see Barouch, W. W. (234) 183
- Muir, J. R., Weber, A. and Olson, R. E.
Cardiac myofibrillar ATPase: A comparison

- with that of fast skeletal actomyosin in its native and in an altered conformation (234) 199
- Muijsers, A. O., Tiesjema, R. H. and Van Gelder, B. F.
Biochemical and biophysical studies on cytochrome aa_3 . II. Conformations of oxidized cytochrome aa_3 (234) 481
- Nieuwenhuis, F. J. R. M., see Van de Stadt, R. J. (234) 173
- Oelze, J. and Kamen, M. D.
Adenosine triphosphate cellular levels in *Rhodospirillum rubrum* during transition from aerobic to anaerobic metabolism (234) 137
- Olson, R. E., see Muir, J. R. (234) 199
- Ooi, T., see Ikkai, T. (234) 190
- Osmond, C. B. and Harris, B.
Photorespiration during C_4 photosynthesis (234) 270
- Papageorgiou, G. and Govindjee
pH control of the chlorophyll a fluorescence in algae (234) 428
- Peck, Jr., H. D., see LeGall, J. (234) 525
- Pohl, H. A., see Ting, I. P. (234) 324
- Raps, S., see Gregory, R. P. F. (234) 330
- Reichman, L. M., see Koltover, V. K. (234) 306
- Reiss-Husson, F., De Klerk, H., Jolchine, G., Jauneau, E. and Kamen, M. D.
Some effects of iron deficiency on *Rhodospseudomonas spheroides* strainy (234) 73
- Rossi, C. R., Alexandre, A., Carignani, G. and Siliprandi, N.
Regulation mechanism for fatty acid and α -ketoglutarate oxidation, (234) 311
- Ryter, A., see Frehel, C. (234) 226
- Sabadie-Pialoux, N. and Gautheron, D.
Free -SH variations during ATP synthesis by oxidative phosphorylation in heart muscle mitochondria (234) 9
- Santos Mota, J. M., see Carvalho Guerra, F. (234) 222
- Sauer, F., see Heldt, H. W. (234) 83
- Sauer, K., see Sun, A. S. K. (234) 399
- Sauer, L. A.
Steroid hydroxylations in rat adrenal mitochondria. III. The ATP-steroid-oxygen stoichiometry of ATP-dependent steroid hydroxylation (234) 287
- Schmidt, G. L. and Kamen, M. D.
Redox properties of the "P-836" pigment complex of Chromatium (234) 70
- Sharp, J. J., see Meyer, T. E. (234) 266
- Siliprandi, N., see Rossi, C. R. (234) 311
- Skulachev, V. P., see Jasaites, A. A. (234) 177
- Smith, L., see Knowles, C. J. (234) 144
- Smith, L., see Knowles, C. J. (234) 153
- Sofrová, D., see Bendall, D. S. (234) 371
- Spilker, E., see LeGall, J. (234) 525
- Stam, H., see Tulp, A. (234) 301
- Staroń, K. and Kaniuga, Z.
Electron transport activities in rat liver endoplasmic reticulum membrane fragments prepared by chromatography on Sepharose 2B (234) 297
- Sullivan, G. W., see Mandell, G. L. (234) 43
- Sun, A. S. K. and Sauer, K.
Pigment systems and electron transport in chloroplasts. I. Quantum requirements for the two light reactions in spinach chloroplasts (234) 399
- Swallow, A. J., see Land, E. J. (234) 34
- Takamiya, A., see Kimimura, M., (234) 92
- Takamiya, K.
The light-induced oxidation-reduction reactions of menaquinone in intact cells of a green photosynthetic bacterium, *Chloropseudomonas ethylica* (234) 390
- Thorell, see Kohen, E. (234) 531
- Thorne, S. W. and Boardman, N. K.
The effect of temperature on the fluorescence kinetics of spinach chloroplasts (234) 113
- Tiesjema, R. H., see Muijsers, A. O. (234) 481
- Ting, I. P., Jolley, K., Beasley, C. A. and Pohl, H. A.
Dielectrophoresis of chloroplasts (234) 324
- Totsuka, T.
Transformation of plasmodium actin polymers at high temperatures (234) 162
- Tulp, A., Stam, H. and Van Dam, K.
Permeability of housefly mitochondria towards dicarboxylase ions, (234) 301
- Van Buuren, K. J. H., Van Gelder, B. F. and Eggelte, T. A.
Biochemical and biophysical studies on cytochrome aa_3 . I. Steady-state kinetics of cytochrome aa_3 (234) 468
- Van Dam, K., see Van de Stadt, R. J. (234) 173
- Van Dam, K., see Tulp, A. (234) 301
- Van de Stadt, R. J., Nieuwenhuis, F. J. R. M. and Van Dam, K.
On the reversibility of the energy-linked transhydrogenase (234) 173
- Van Gelder, B. F., see Van Buuren, K. J. H. (234) 468
- Van Gelder, B. F., see Muijsers, A. O. (234) 481
- Van Gelder, B. F., see Blokzijl-Homan (234) 493
- Van Golde, L. M. G., see Carvalho Guerra, F. (234) 222
- Van Voorst, J. D. W., see Katan, M. B. (234) 242
- Visser, J. W. M., see Ames, J. (234) 62
- Weber, A., see Muir, J. R. (234) 199
- Wegmann, K.
Osmotic regulation of photosynthetic glycerol production in *Dunaliella* (234) 317
- Wikström, M. K. F.
Inhibition of oxidative phosphorylation by hydroxylamine in sonicated particles from beef-heart mitochondria (234) 16
- Wildman, S. G., see Kwok, S.-Y. (234) 293
- Wong, J., see Bishop, N. I. (234) 433
- Yasaitis, A. A., see Koltover, V. K. (234) 306