

AUTHOR INDEX

- Alfano, R. R., see Yu, W. (460) 171
- Arnon, D. I., see Hiyama, T. (460) 65
- Arnon, D. I., see Hiyama, T. (460) 76
- Ashley, C. C., see Moisesescu, D. G. (460) 189
- Bachofen, R., see Zürrer, H. (460) 273
- Backer, J. M., Budker, V. G., Eremenko, S. I. and Molin, Yu. N.
Detection of the kinetics of biochemical reactions with oxygen using exchange broadening in the ESR spectra of nitroxide radicals (460) 152
- Benson, D. L., see Trosper, T. L. (460) 318
- Berg, S. P. and Izawa, S.
Pathways of silicomolybdate photoreduction and the associated photophosphorylation in tobacco chloroplasts (460) 206
- Bickel-Sandkötter, S., see Strotmann, H. (460) 126
- Blair, J. E., see Spitsberg, V. L. (460) 136
- Bonner, Jr., W. D., see Henry, M.-F. (460) 94
- Bonner, Jr., W. D., see Moore, A. L. (460) 455
- Borejdo, J., see Hochberg, A. (460) 308
- Braams, R., see de Kok, J. (460) 290
- Bruschi, M., see Probst, I. (460) 58
- Budker, V. G., see Backer, J. M. (460) 152
- Bunce, G. E. and Li, B. W.
A study of calcium pump activity of lysosomes from rat renal cortex (460) 163
- Butler, J., see de Kok, J. (460) 290
- Butler, W. L., see Strasser, R. J. (460) 230
- Chaen, S., see Nishiyama, K. (460) 523
- Chon, C. J., see Lilley, R. McC. (460) 259
- Cramer, W. A., see Whitmarsh, J. (460) 280
- De Kok, J., Butler, J., Braams, R. and van Gelder, B. F.
The reduction of porphyrin cytochrome c by hydrated electrons and the subsequent electron transfer reaction from reduced porphyrin cytochrome c to ferricytochrome c (460) 290
- Diner, B. A.
Dependence of the deactivation reactions of Photosystem II on the redox state of plastoquinone pool A varied under anaerobic conditions. Equilibria on the acceptor side of Photosystem II (460) 247
- Drahota, Z. and Houštěk, J.
A simple procedure for isolating adenosine triphosphatase from mitochondria (460) 543
- Dutton, P. L., see Netzel, T. L. (460) 467
- Duysens, L. N. M., see Hoff, A. J. (460) 549
- Eboli, M. L., Paradies, G., Galeotti, T. and Papa, S.
Pyruvate transport in tumour-cell mitochondria (460) 183
- Erecińska, M., see Kilpatrick, L. (460) 346
- Eremenko, S. I., see Backer, J. M. (460) 152
- Ernster, L., see Nelson, B. D. (460) 157
- Galeotti, T., see Eboli, M. L. (460) 183
- Gast, P., see Visser, J. W. M. (460) 36
- Genge, S., see Hiller, R. G. (460) 431
- Gingras, G., see Mar, T. (460) 239
- Graziani, Y.
Bioflavonoid regulation of ATPase and hexokinase activity in Ehrlich ascites cell mitochondria (460) 364
- Hanselmann, K., see Zürrer, H. (460) 273
- Heldt, H. W., see Lilley, R. McC. (460) 259
- Henry, M.-F., Bonner, Jr., W. D. and Nyns, E. J.
Involvement of iron in the biogenesis of the cyanide-insensitive respiration in the yeast *Saccharomyces lipolytica* (460) 94
- Hiller, R. G., Pilger, T. B. G. and Genge, S.
Effect of lincomycin on the chlorophyll protein complex I content and Photosystem I activity of greening leaves (460) 431
- Hiroimi, K., see Kihara, H. (460) 480
- Hiyama, T., McSwain, B. D. and Arnon, D. I.
Correlation of redox levels of component electron carriers with total electron flux in an electron-transport system. P-700 and the photoreduction of NADP⁺ in chloroplast fragments (460) 65
- Hiyama, T., McSwain, B. D. and Arnon, D. I.
Evidence for two types of P-700 in membrane fragments from a blue-green alga (460) 76
- Hochberg, A., Low, W., Tirosh, R., Borejdo, J. and Oplatka, A.
A study of the dynamic properties of actomyosin systems by quasi-elastic light scattering (460) 308
- Hoff, A. J., Rademaker, H., van Grondelle, R. and Duysens, L. N. M.
On the magnetic field dependence of the yield of the triplet state in reaction centers of photosynthetic bacteria (460) 549
- Homann, P. H.
The light dependent uptake of N-methylphenazonium cations by the thylakoids of isolated chloroplasts (460) 1
- Hon-nami, K., see Kihara, H. (460) 480
- Houštěk, J., see Drahota, Z. (460) 543

- Hryniewiecka, L. V., see Lauquin, G. J. M. (460) 331
- Itoh, S. and Nishimura, M.
pH dependent changes in the reactivity of the primary electron acceptor of system II in spinach chloroplasts to external oxidant and reductant (460) 381
- Izawa, S., see Berg, S. P. (460) 206
- Joliot, A.
Flash induced fluorescence kinetics in chloroplasts in the 20 μ s–100 s time range in the presence of 3(3,4-dichlorophenyl)-1,1-dimethylurea. Effects of hydroxylamine (460) 142
- Kanner, N., see Winget, G. D. (460) 490
- Kemp, A., see Wagenvoort, R. J. (460) 17
- Kihara, H., Nakatani, H., Hiromi, K., Honnami, K. and Oshima, T.
Kinetic studies on redox reactions of hemo-proteins. I. Reduction of thermoresistant cytochrome c-552 and horse heart cytochrome c by ferrocyanide (460) 480
- Kilpatrick, L. and Erecińska, M.
Mitochondrial respiratory chain of *Tetrahymena pyriformis*. The thermodynamic and spectral properties (460) 346
- Kitazume, Y., see Shin, M. (460) 85
- Kometani, K., see Nishiyama, K. (460) 523
- Krause, G. H.
Light-induced movement of magnesium ions in intact chloroplasts. Spectroscopic determination with Eriochrome Blue SE (460) 500
- Lauquin, G. J. M., Villiers, C., Michejda, J. W., Hryniewiecka, L. V. and Vignais, P. V.
Adenine nucleotide transport in sonic sub-mitochondrial particles. Kinetic properties and binding of specific inhibitors (460) 331
- Le Gall, J., see Probst, I. (460) 58
- Li, B. W., see Bunce, G. E. (460) 163
- Lilley, R. McC., Chon, C. J., Mosbach, A. and Heldt, H. W.
The distribution of metabolites between spinach chloroplasts and medium during photosynthesis in vitro (460) 259
- Low, W., see Hochberg, A. (460) 308
- Lutz, M.
Antenna chlorophyll in photosynthetic membranes. A study by resonance raman spectroscopy (460) 408
- Manella, C. A. and Parsons, D. F.
Uncoupler-induced changes in mitochondrial structure detected by small-angle X-ray scattering (460) 375
- Manuel, M. A. and Weiner, M. W.
Effects of ethacrynic acid and furosemide on phosphorylation reactions of kidney mitochondria. Inhibition of the adenine nucleotide translocase (460) 445
- Mar, T. and Gingras, G.
Evidence for monomeric bacteriochlorophyll in P-800 of the photoreaction center from *Rhodospirillum rubrum* (460) 239
- McSwain, B. D., see Hiyama, T. (460) 65
- McSwain, B. D., see Hiyama, T. (460) 76
- Michejda, J. W., see Lauquin, G. J. M. (460) 331
- Moisesescu, D. G. and Ashley, C. C.
The effect of physiologically occurring cations upon aequorin light emission. Determination of the binding constants (460) 189
- Molin, Yu. N., see Backer, J. M. (460) 152
- Monger, T. G. and Parson, W. W.
Singlet-triplet fusion in *Rhodopseudomonas sphaeroides* chromatophores. A probe of the organization of the photosynthetic apparatus (460) 393
- Moore, A. L. and Bonner, Jr., W. D.
The effect of calcium on the respiratory responses of mung bean mitochondria (460) 455
- Mosbach, A., see Lilley, R. McC. (460) 259
- Murata, N., see Ono, T.-A. (460) 220
- Nakatani, H., see Kihara, H. (460) 480
- Nelson, B. D., Walter, P. and Ernster, L.
Funiculosin: an antibiotic with antimycin-like inhibitory properties (460) 157
- Netzel, T. L., Rentzepis, P. M., Tiede, D. M., Prince, R. C. and Dutton, P. L.
Effect of reduction of the reaction center intermediate upon the picosecond oxidation reaction of the bacteriochlorophyll dimer in *Chromatium vinosum* and *Rhodopseudomonas viridis* (460) 467
- Nishimura, M., see Itoh, S. (460) 381
- Nishiyama, K., Shimizu, H., Kometani, K. and Chaen, S.
The three-state model for the elementary process of energy conversion in muscle (460) 523
- Nyns, E. J., see Henry, M.-F. (460) 94
- Ono, T.-A. and Murata, N.
Temperature dependence of the delayed fluorescence of chlorophyll a in blue-green algae (460) 220
- Oplatka, A., see Hochberg, A. (460) 308
- Ort, D. R., see Selman, B. R. (460) 101
- Oshima, T., see Kihara, H. (460) 480
- Oshino, R., see Shin, M. (460) 85
- Papa, S., see Eboli, M. L. (460) 183
- Paradies, G., see Eboli, M. L. (460) 183
- Parson, W. W., see Monger, T. G. (460) 393
- Parsons, D. F., see Manella, C. A. (460) 375
- Pellegrino, F., see Yu, W. (460) 171
- Petersen, L. Chr.
The effect of inhibitors on the oxygen

- kinetics of cytochrome c oxidase (460) 299
- Pfennig, N., see Probst, I. (460) 58
- Pilger, T. B. G., see Hiller, R. G. (460) 431
- Prince, R. C., see Netzel, T. L. (460) 467
- Probst, I., Bruschi, M., Pfennig, N. and Le Gall, J.
Cytochrome c-551.5 (c_7) from *Desulfuro-
monas acetoxidans* (460) 58
- Racker, E., see Winget, G. D. (460) 490
- Rademaker, H., see Hoff, A. J. (460) 549
- Reinhardt, B., see Ried, A. (460) 25
- Renger, G. and Wolff, Ch.
Further evidence for dissipative energy
migration via triplet states in photosyn-
thesis. The protective mechanism of caro-
tenoids in *Rhodospseudomonas spheroides*
chromatophores (460) 47
- Rentzepis, P. M., see Netzel, T. L. (460) 467
- Rijgersberg, C. P., see Visser, J. W. M. (460) 36
- Ried, A. and Reinhardt, B.
Distribution of excitation energy between
Photosystem I and Photosystem II in red al-
gae. II. Kinetics of the transition between
state 1 and state 2 (460) 25
- Selman, B. R. and Ort, D. R.
Oxidation-reduction coupled phosphoryla-
tion in the dark with isolated spinach
chloroplasts (460) 101
- Shimizu, H., see Nishiyama, K. (460) 523
- Shin, M., Sukenobu, M., Oshino, R. and Kita-
zume, Y.
Two plant-type ferredoxins from a blue-
green alga, *Nostoc verrucosum* (460) 85
- Snozzi, M., see Zürrer, H. (460) 273
- Spitsberg, V. L. and Blair, J. E.
Evidence supporting the identity of beef
heart mitochondrial chloroform-released
adenosine triphosphatase (ATPase) with
coupling factor I (460) 136
- Stemler, A.
The binding of bicarbonate ions to washed
chloroplast grana (460) 511
- Strasser, R. J. and Butler, W. L.
Energy transfer and the distribution of ex-
citation energy in the photosynthetic appa-
ratus of spinach chloroplasts (460) 230
- Strotmann, H. and Bickel-Sandkötter, S.
Energy-dependent exchange of adenine nu-
cleotides on chloroplast coupling factor
(CF₁) (460) 126
- Strotmann, H., see Tischler, W. (460) 113
- Sukenobu, M., see Shin, M. (460) 85
- Thornber, J. P., see Trosper, T. L. (460) 318
- Tiede, D. M., see Netzel, T. L. (460) 467
- Tirosh, R., see Hochberg, A. (460) 308
- Tischler, W. and Strotmann, H.
Relationship between inhibitor binding by
chloroplasts and inhibition of photosyn-
thetic electron transport (460) 113
- Trosper, T. L., Benson, D. L. and Thornber, J. P.
Isolation and spectral characteristics of the
photochemical reaction center of *Rhodo-
pseudomonas viridis* (460) 318
- Van der Kraan, I., see Wagenvoort, R. J. (460)
17
- Van Gelder, B. F., see de Kok, J. (460) 290
- Van Grondelle, R., see Hoff, A. J. (460) 549
- Vignais, P. V., see Lauquin, G. J. M. (460) 331
- Villiers, C., see Lauquin, G. J. M. (460) 331
- Visser, J. W. M., Rijgersberg, C. P. and Gast, P.
Photooxidation of chlorophyll in spinach
chloroplasts between 10 and 180 K (460) 36
- Wagenvoort, R. J., van der Kraan, I. and Kemp,
A.
Specific photolabelling of beef-heart mito-
chondrial ATPase by 8-azido-ATP (460) 17
- Walter, P., see Nelson, B. D. (460) 157
- Weiner, M. W., see Manuel, M. A. (460) 445
- Whitmarsh, J. and Cramer, W. A.
Kinetics of the photoreduction of cyto-
chrome b-559 by Photosystem II in chloro-
plasts (460) 280
- Winget, G. D., Kanner, N. and Racker, E.
Formation of ATP by the adenosine tri-
phosphatase complex from spinach chloro-
plasts reconstituted together with bacterio-
rhodopsin (460) 490
- Wolff, Ch., see Renger, G. (460) 47
- Yu, W., Pellegrino, F. and Alfano, R. R.
Time-resolved fluorescence spectroscopy of
spinach chloroplast (460) 171
- Zürrer, H., Snozzi, M., Hanselmann, K. and
Bachofen, R.
Localisation of the subunits of the photo-
synthetic reaction centers in the chromato-
phore membrane of *Rhodospirillum rubrum*
(460) 273