

AUTHOR INDEX

- Aleem, M.I.H., see Kula, T.J. (680) 142
- Arntzen, C.J., see Haworth, P. (680) 343
- Arntzen, C.J., see Kyle, D.J. (680) 336
- Babitch, S., see Kopecký, J. (680) 80
- Barsky, E.L., Gusev, M.V., Kondrashin, A.A. and Samuilov, V.D.
Reconstitution of electrogenic function in isolated pigment-protein complexes of *Anabaena variabilis* (680) 304
- Bennoun, P., see Wollman, F.-A. (680) 352
- Berden, J.A., see Zhu, Q.S. (680) 69
- Bertrand, P. and Gayda, J.-P.
Contribution of the exchange interactions to the redox properties of the [2Fe-2S] ferredoxins (680) 331
- Betti, J.A., Blankenship, R.E., Natarajan, L.V., Dickinson, L.C. and Fuller, R.C.
Antenna organization and evidence for the function of a new antenna pigment species in the green photosynthetic bacterium *Chloroflexus aurantiacus* (680) 194
- Bielski, B.H.J., see Maskiewicz, R. (680) 297
- Black, M.T., see Horton, P. (680) 22
- Blankenship, R.E., see Betti, J.A. (680) 194
- Blankenship, R.E., see Schenck, C.C. (680) 44
- Bohnsack, R., Küster, U. and Letko, G.
Rate-controlling steps of oxidative phosphorylation in rat liver mitochondria. A synoptic approach of model and experiment (680) 271
- Bowes, J.M. and Horton, P.
The effect of redox potential on the kinetics of fluorescence induction in Photosystem II particles from *Phormidium laminosum*. Sigmoidicity, energy transfer and the slow phase (680) 127
- Brooks, S.P.J. and Nicholls, P.
Anion and ionic strength effects upon the oxidation of cytochrome c by cytochrome c oxidase (680) 33
- Burris, R.H., see Sweet, W.J. (680) 17
- Carley, W.W. and Racker, E.
ATP-dependent phosphate transport in sarcoplasmic reticulum and reconstituted proteoliposomes (680) 187
- Carrillo, N., see Wagner, R. (680) 317
- Chazotte, B., Vanderkooi, G. and Chignell, D.
Further studies on F_1 -ATPase inhibition by local anesthetics (680) 310
- Chignell, D., see Chazotte, B. (680) 310
- Cousineau, C., see Sinclair, J. (680) 258
- Dasgupta, S.R. and Ryan, M.D.
The electron-transfer kinetics of spinach ferredoxin with strong reductants (680) 242
- Dědina, J., see Kopecký, J. (680) 80
- Dennery, J.-M., see Lavorel, J. (680) 281
- De Vries, S., see Zhu, Q.S. (680) 69
- Dickinson, L.C., see Betti, J.A. (680) 194
- Diner, B., see Schenck, C.C. (680) 216
- Drahota, Z., see Kopecký, J. (680) 80
- D'Souza, M.P. and Wilson, D.F.
Adenine nucleotide efflux in mitochondria induced by inorganic pyrophosphate (680) 28
- Fanestil, D.D., see Kessler, R.J. (680) 152
- Fuller, R.C., see Betti, J.A. (680) 194
- Gayda, J.-P., see Bertrand, P. (680) 331
- Gómez-Lojero, C., see Lerma, C. (680) 181
- Goodbody, A.E. and Trayhurn, P.
Studies on the activity of brown adipose tissue in suckling, pre-obese, ob/ob mice (680) 119
- Govindjee, see Vermaas, W.F.J. (680) 202
- Gray, G.O. and Knaff, D.B.
The role of a cytochrome c-552-cytochrome c complex in the oxidation of sulfide in *Chromatium vinosum* (680) 290
- Gusev, M.V., see Barsky, E.L. (680) 304
- Haehnel, W., Nairn, J.A., Reisberg, P. and Sauer, K.
Picosecond fluorescence kinetics and energy transfer in chloroplasts and algae (680) 161
- Haworth, P., see Kyle, D.J. (680) 336
- Haworth, P., Kyle, D.J. and Arntzen, C.J.
A demonstration of the physiological role of membrane phosphorylation in chloroplasts, using the bipartite and tripartite models of photosynthesis (680) 343
- Heber, U., see Köster, S. (680) 88
- Horton, P. and Black, M.T.
On the nature of the fluorescence decrease due to phosphorylation of chloroplast membrane proteins (680) 22
- Horton, P., see Bowes, J.M. (680) 127
- Houštěk, J., see Kopecký, J. (680) 80
- Junge, W., see Wagner, R. (680) 317
- Kaniuga, Z., see Michalski, W.P. (680) 250
- Kessler, R.J. and Fanestil, D.D.
Proton-transporting urinary epithelia. Reactivity with N,N' -dicyclohexylcarbodiimide (680) 152
- Kito, M., see Koyama, Y. (680) 109
- Knaff, D.B., see Gray, G.O. (680) 290
- Kondrashin, A.A., see Barsky, E.L. (680) 304
- Kopecký, J., Dědina, J., Votruba, J., Svoboda, P., Houštěk, J., Babitch, S. and Drahota, Z.
Stoichiometry of dicyclohexylcarbodiimide-ATPase interaction in mitochondria (680) 80

- Köster, S. and Heber, U.
Light scattering and quenching of 9-aminoacridine fluorescence as indicators of the phosphorylation state of the adenylate system in intact spinach chloroplasts (680) 88
- Koyama, Y., Kito, M., Takii, T., Saiki, K., Tsukida, K. and Yamashita, J.
Configuration of the carotenoid in the reaction centers of photosynthetic bacteria. Comparison of the resonance Raman spectrum of the reaction center of *Rhodospseudomonas sphaeroides* G1C with those of cis-trans isomers of β -carotene (680) 109
- Kula, T.J., Aleem, M.I.H. and Wilson, D.F.
Oxidation-reduction potentials of respiratory chain components in *Thiobacillus A₂* (680) 142
- Küster, U., see Bohnensack, R. (680) 271
- Kuwabara, T. and Murata, N.
An improved purification method and a further characterization of the 33-kilodalton protein of spinach chloroplasts (680) 210
- Kyle, D.J., see Haworth, P. (680) 343
- Kyle, D.J., Haworth, P. and Arntzen, C.J.
Thylakoid membrane protein phosphorylation leads to a decrease in connectivity between Photosystem II reaction centers (680) 336
- Lavorel, J. and Dennery, J.-M.
The slow component of Photosystem II luminescence. A process with distributed rate constant? (680) 281
- Lerma, C. and Gómex-Lojero, C.
Photosynthetic phosphorylation by a membrane preparation of the cyanobacterium *Spirulina maxima* (680) 181
- Letko, G., see Bohnensack, R. (680) 271
- Ley, A.C. and Mauzerall, D.C.
Absolute absorption cross-sections for Photosystem II and the minimum quantum requirement for photosynthesis in *Chlorella vulgaris* (680) 95
- Ley, A.C. and Mauzerall, D.C.
The reversible decline of oxygen flash yields at high flash energies. Evidence for total annihilation of excitations in Photosystem II (680) 174
- Maskiewicz, R. and Bielski, B.H.J.
Kinetics of some electron-transfer reactions in biological Photosystems. II. Study of intramolecular electron-transfer rates between ferredoxin-NADP reductase, NADP⁺ radical and oxidized ferredoxin (680) 297
- Mathis, P., see Schenck, C.C. (680) 216
- Mauzerall, D.C., see Ley, A.C. (680) 95
- Mauzerall, D.C., see Ley, A.C. (680) 174
- Melandri, B.A., see Venturoli, G. (680) 8
- Michalski, W.P. and Kaniuga, Z.
Photosynthetic apparatus of chilling-sensitive plants. XI. Reversibility by light of cold- and dark-induced inactivation of cyanide-sensitive superoxide dismutase activity in tomato leaf chloroplasts (680) 250
- Misra, P.C.
The inhibitory effect of N,N'-dicyclohexylcarbodiimide in active sugar uptake by *Rhodotorula glutinis* (680) 228
- Murata, N., see Kuwabara, T. (680) 210
- Nairn, J.A., see Haehnel, W. (680) 161
- Natarajan, L.V., see Betti, J.A. (680) 194
- Nelson, D., see Wilson, D.F. (680) 233
- Nicholls, P., see Brooks, S.P.J. (680) 33
- Parson, W.W., see Schenck, C.C. (680) 44
- Pfister, K., see Schreiber, U. (680) 60
- Racker, E., see Carley, W.W. (680) 187
- Reisberg, P., see Haehnel, W. (680) 161
- Ryan, M.D., see Dasgupta, S.R. (680) 242
- Saiki, K., see Koyama, Y. (680) 109
- Samuilov, V.D., see Barsky, E.L. (680) 304
- Satoh, K., see Schenck, C.C. (680) 216
- Sauer, K., see Haehnel, W. (680) 161
- Schenck, C.C., Blankenship, R.E. and Parson, W.W.
Radical-pair decay kinetics, triplet yields and delayed fluorescence from bacterial reaction centers (680) 44
- Schenck, C.C., Diner, B., Mathis, P. and Satoh, K.
Flash-induced carotenoid radical cation formation in Photosystem II (680) 216
- Schreiber, U. and Pfister, K.
Kinetic analysis of the light-induced chlorophyll fluorescence rise curve in the presence of dichlorophenyltrimethylurea. Dependence of the slow-rise component on the degree of chloroplast intactness (680) 60
- Sinclair, J. and Cousineau, C.
The deactivation of Photosystem II in *Chlorella* as a second-order process (680) 258
- Slater, E.C., see Zhu, Q.S. (680) 69
- Slovacek, R.E.
Intact chloroplast electron flow. Effects of ribose 5-phosphate (680) 363
- Svoboda, P., see Kopecký, J. (680) 80
- Sweet, W.J. and Burris, R.H.
Effect of in vivo treatments on the activity of nitrogenase isolated from *Rhodospirillum rubrum* (680) 17
- Takii, T., see Koyama, Y. (680) 109
- Tanaka, A. and Tsuji, H.
Calcium-induced formation of chlorophyll b and light-harvesting chlorophyll a/b-protein complex in cucumber cotyledons in the dark (680) 265
- Trayhurn, P., see Goodbody, A.E. (680) 119
- Tsuji, H., see Tanaka, A. (680) 265
- Tsukida, K., see Koyama, Y. (680) 109
- Vallejos, R.H., see Wagner, R. (680) 317
- Van Buuren, K.J.H., see Veerman, E.C.I. (680) 134
- Vanderkooi, G., see Chazotte, B. (680) 310
- Van Gelder, B.F., see Veerman, E.C.I. (680) 134
- Van Leeuwen, J.W., see Veerman, E.C.I. (680) 134
- Veerman, E.C.I., Van Leeuwen, J.W., Van Buuren, K.J.H. and Van Gelder, B.F.
The reaction of cytochrome aa₃ with (porphyrin) cytochrome c as studied by pulse radiolysis (680) 134

Venturoli, G. and Melandri, B.A.

The localized coupling of bacterial photophosphorylation. Effect of antimycin A and N,N'-dicyclohexylcarbodiimide in chromatophores from *Rhodopseudomonas sphaeroides*, Ga, studied by single turnover event analysis (680) 8

Vermaas, W.F.J. and Govindjee

Bicarbonate effects on chlorophyll a fluorescence transients in the presence and the absence of diuron (680) 202

Votruba, J., see Kopecký, J. (680) 80

Wagner, R., Carrillo, N., Junge, W. and Vallejos, R.H.

On the conformation of reconstituted ferredoxin:NADP⁺ oxidoreductase in the thylakoid membrane. Studies via triplet lifetime and rotational diffusion with eosin isothiocyanate as label (680) 317

Wilson, D.F., see D'Souza, M.P. (680) 28

Wilson, D.F., see Kula, T.J. (680) 142

Wilson, D.F. and Nelson, D.

Coulometric and potentiometric evaluation of the redox components of cytochrome c oxidase in situ (680) 233

Wollman, F.-A. and Bennis, P.

A new chlorophyll-protein complex related to Photosystem I in *Chlamydomonas reinhardtii* (680) 352

Yamashita, J., see Koyama, Y. (680) 109

Zannoni, D.

ATP synthesis coupled to light-dependent non-cyclic electron flow in chromatophores of *Rhodopseudomonas capsulata* (680) 1

Zhu, Q.S., Berden, J.A., De Vries, S. and Slater, E.C.

On the role of ubiquinone in the respiratory chain (680) 69