

AUTHOR INDEX

- Abramowicz, D.A., see Hunziker, D. (890) 6
- Agalidis, I., Nuijs, A.M. and Reiss-Husson, F.
Characterization of an LM unit purified by affinity chromatography from *Rhodobacter sphaeroides* reaction centers and interactions with the H subunit (890) 242
- Amesz, J., see Van Dorssen, R.J. (890) 134
- Baltscheffsky, H., see Lundin, M. (890) 279
- Baribeau, J. and Boucher, F.
Is the purple color of bacteriorhodopsin maintained by lipid-protein interactions? (890) 275
- Beijer, C. and Rutherford, A.W.
The iron-quinone acceptor complex in *Rhodospirillum rubrum* chromatophores studied by EPR (890) 169
- Bisaccia, F., see Indiveri, C. (890) 310
- Bohnsack, R., see Gellerich, F.N. (890) 117
- Boucher, F., see Baribeau, J. (890) 275
- Boussac, A., see Miyao, M. (890) 151
- Boyer, P.D., see Kandpal, R.P. (890) 97
- Britt, R.D., see Cole, J. (890) 395
- Bürgi, R., Suter, F. and Zuber, H.
Arrangement of the light-harvesting chlorophyll *a/b* protein complex in the thylakoid membrane (890) 346
- Cheniae, G., see Tamura, N. (890) 179
- Cole, J., Yachandra, V.K., Guiles, R.D., McDermott, A.E., Britt, R.D., Dexheimer, S.L., Sauer, K. and Klein, M.P.
Assignment of the $g = 4.1$ epr signal to manganese in the S_2 state of the photosynthetic oxygen-evolving complex: an X-ray absorption edge spectroscopy study (890) 395
- Cortez, N., see Lucero, H.A. (890) 77
- Cotton, N.P.J., see Myatt, J.F. (890) 251
- Cox, G.B., Hatch, L., Webb, D., Fimmel, A.L., Lin, Z.-H., Senior, A.E. and Gibson, F.
Amino acid substitutions in the ϵ -subunit of the F_1F_0 -ATPase of *Escherichia coli* (890) 195
- Csatorday, K., Kumar, S. and Warden, J.T.
Phenylglyoxal modification of the Photosystem II reaction center (890) 224
- Csatorday, K., see Warden, J.T. (890) 215
- Daldal, F., see Davidson, E. (890) 292
- Damoder, R., see Hunziker, D. (890) 6
- Da Silva, L.P., see Lundin, M. (890) 279
- Davidson, E., Prince, R.C., Daldal, F., Hauska, G. and Marrs, B.L.
Rhodobacter capsulatus MT113: a single mutation results in the absence of *c*-type cytochromes and in the absence of the cytochrome b_{cl} complex (890) 292
- Dekker, J.P., see Van Dorssen, R.J. (890) 134
- Den Ouden, A., see Van Dorssen, R.J. (890) 134
- Dexheimer, S.L., see Cole, J. (890) 395
- Dismukes, G.C., see Hunziker, D. (890) 6
- Dostatni, R., see Oettmeier, W. (890) 260
- Draijer, J.W., see Sinjorgo, K.M.C. (890) 144
- Drews, G., see García, A.F. (890) 335
- Durak, I., see Sinjorgo, K.M.C. (890) 144
- Eckert, H.-J., see Völker, M. (890) 66
- Edman, K.A., see Petit, P.X. (890) 377
- Eichenberger, D., see Marcillat, O. (890) 233
- Ericson, I., see Petit, P.X. (890) 377
- Etienne, A.-L., see Miyao, M. (890) 151
- Fernández-Velasco, J.G., see García, A.F. (890) 335
- Fimmel, A.L., see Cox, G.B. (890) 195
- Gad'on, N., see García, A.F. (890) 335
- García, A.F., Venturoli, G., Gad'on, N., Fernández-Velasco, J.G., Melandri, B.A. and Drews, G.
The adaptation of the electron transfer chain of *Rhodospseudomonas capsulata* to different light intensities (890) 335
- Gardeström, P., see Petit, P.X. (890) 377
- Gellerich, F.N., Schlame, M., Bohnsack, R. and Kunz, W.
Dynamic compartmentation of adenine nucleotides in the mitochondrial intermembrane space of rat-heart mitochondria (890) 117
- Gibson, F., see Cox, G.B. (890) 195
- Godinot, C., see Moradi-Améli, M. (890) 55
- Goldschmidt, D., see Marcillat, O. (890) 233
- Goodman, G. and Leigh, Jr., J.S.
The distance between cytochromes a and a_3 in the azide compound of bovine-heart cytochrome oxidase (980) 360
- Gräber, P., see Schmidt, G. (890) 392
- Guiles, R.D., see Cole, J. (890) 395
- Gwak, S.H., Yang, F.D., Yu, L. and Yu, C.A.
Phospholipid-dependent interaction between dibromothymoquinone and iron-sulfur protein in mitochondrial ubiquinol-cytochrome c reductase (890) 319
- Hakvoort, T.B.M., see Sinjorgo, K.M.C. (890) 144
- Hangarter, R.P., Jones, R.W., Ort, D.R. and Whitmarsh, J.
Stoichiometries and energetics of proton translocation coupled to electron transport in chloroplasts (890) 106
- Hatch, L., see Cox, G.B. (890) 195
- Hauska, G., see Davidson, E. (890) 292
- Hayashi, M. and Unemoto, T.
Subunit component and their roles in the sodium-transport

- NADH:quinone reductase of a marine bacterium, *Vibrio alginolyticus* (890) 47
- Horak, A., Horak, H. and Packer, M.
Restoration of ATP synthesis in urea-treated membranes prepared from pea cotyledon mitochondria (890) 302
- Horak, H., see Horak, A. (890) 302
- Hsu, B.-D., Lee, J.-Y. and Pan, R.-L.
The high-affinity binding site for manganese on the oxidizing side of Photosystem II (890) 89
- Hunziker, D., Abramowicz, D.A., Damoder, R. and Dismukes, G.C.
Evidence for an association between a 33 kDa extrinsic membrane protein, manganese and photosynthetic oxygen evolution. I. Correlation with the S_2 multiline EPR signal (890) 6
- Iba, K., see Takamiya, K.-i. (890) 127
- Indiveri, C., Palmieri, F., Bisaccia, F. and Krämer, R.
Kinetics of the reconstituted 2-oxoglutarate carrier from bovine heart mitochondria (890) 310
- Jackson, J.B., see Myatt, J.F. (890) 251
- Jones, R.W., see Hangarter, R.P. (890) 106
- Junge, W. and McLaughlin, S.
The role of fixed and mobile buffers in the kinetics of proton movement (890) 1
- Kandpal, R.P. and Boyer, P.D.
Escherichia coli F_1 ATPase is reversibly inhibited by intra- and intersubunit crosslinking: an approach to assess rotational catalysis (890) 97
- Kawashima, Y., see Nishida, T. (890) 82
- Klein, M.P., see Cole, J. (890) 395
- Koseki, M., see Nishida, T. (890) 82
- Krämer, R., see Indiveri, C. (890) 310
- Kumar, S., see Csatorday, K. (890) 224
- Kunz, W., see Gellerich, F.N. (890) 117
- Lavorel, J., see Miyao, M. (890) 151
- Lee, J.-Y., see Hsu, B.-D. (890) 89
- Leigh, Jr., J.S., see Goodman, G. (890) 360
- Lin, Z.-H., see Cox, G.B. (890) 195
- Lucero, H.A., Cortez, N. and Vallejos, R.H.
Light modulation of serine and threonine phosphorylation in histone III by thylakoids (890) 77
- Lundin, M., Da Silva, L.P. and Baltscheffsky, H.
Energy-dependent formation of free ATP in yeast sub-mitochondrial particles, and its stimulation by oligomycin (890) 279
- Lutz, M., see Zhou, Q. (890) 368
- McDermott, A.E., see Cole, J. (890) 395
- McLaughlin, S., see Junge, W. (890) 1
- Maison-Peteri, B., see Miyao, M. (890) 151
- Marcillat, O., Goldschmidt, D., Eichenberger, D. and Vial, C.
Only one of the two interconvertible forms of mitochondrial creatine kinase binds to heart mitoplasts (890) 233
- Marrs, B.L., see Davidson, E. (890) 292
- Masson, K., see Oettmeier, W. (890) 260
- Melandri, B.A., see García, A.F. (890) 335
- Meyer, B., see Schlodder, E. (890) 23
- Miyao, M., Murata, N., Lavorel, J., Maison-Peteri, B., Boussac, A. and Etienne, A.-L.
Effect of the 33-kDa protein on the S-state transitions in photosynthetic oxygen evolution (890) 151
- Miyao, M., see Styring, S. (890) 32
- Moll, B.A.
Flash-induced fluorescence estimation of Photosystem II electron-transport rates in light-adapted leaves (890) 205
- Moradi-Améli, M. and Godinot, C.
Availability to monoclonal antibodies of antigenic sites of the α and β subunits in active, denatured or membrane-bound mitochondrial F_1 -ATPase (890) 55
- Muijsers, A.O., see Sinjorgo, K.M.C. (890) 144
- Murata, N., see Miyao, M. (890) 151
- Myatt, J.F., Cotton, N.P.J. and Jackson, J.B.
Proton-motive activity of the cytochrome b/c_1 complex in chromatophores of *Rhodobacter capsulatus* in the presence of myxothiazol and antimycin A (890) 251
- Nakao, K., see Nishida, T. (890) 82
- Nishida, T., Shibata, H., Koseki, M., Nakao, K., Kawashima, Y., Yoshida, Y. and Tagawa, K.
Peroxidative injury of the mitochondrial respiratory chain during reperfusion of hypothermic rat liver (890) 82
- Nugent, J.H.A.
Radiation inactivation studies on Photosystem I. Functional sizes of electron-transport reactions (890) 160
- Nuijs, A.M., see Agalidis, I. (890) 242
- Oettmeier, W., Masson, K. and Dostatni, R.
Halogenated 1,4-benzoquinones as irreversibly binding inhibitors of photosynthetic electron transport (890) 260
- Okamura, K., see Takamiya, K.-i. (890) 127
- Ort, D.R., see Hangarter, R.P. (890) 106
- Packer, M., see Horak, A. (890) 302
- Palmieri, F., see Indiveri, C. (890) 310
- Palmieri, F., see Tommasino, M. (890) 39
- Pan, R.-L., see Hsu, B.-D. (890) 89
- Petit, P.X., Edman, K.A., Gardeström, P. and Ericson, I.
Some properties of mitochondria, mitoplasts and sub-mitochondrial particles of different polarities from plant tissues (890) 377
- Pistorius, E.K. and Schmid, G.H.
Effect of chloride ions on the S-state distribution and deactivation kinetics in preparations of the cyanobacterium *Anacystis nidulans* (890) 352
- Plijter, J.J., see Van Dorssen, R.J. (890) 134
- Post, J.K.P., see Sinjorgo, K.M.C. (890) 144
- Prezioso, G., see Tommasino, M. (890) 39
- Prince, R.C. and Youvan, D.C.
Isolation and spectroscopic properties of photochemical reaction centers from *Rhodobacter capsulatus* (890) 286
- Prince, R.C., see Davidson, E. (890) 292

- Reiss-Husson, F., see Agalidis, I. (890) 242
- Renger, G., see Völker, M. (890) 66
- Robert, B., see Zhou, Q. (890) 368
- Rutherford, A.W., see Beijer, C. (890) 169
- Rutherford, A.W., see Styring, S. (890) 32
- Sauer, K., see Cole, J. (890) 395
- Schlame, M., see Gellerich, F.N. (890) 117
- Schlodder, E. and Meyer, B.
pH dependence of oxygen evolution and reduction kinetics of photooxidized chlorophyll a_{II} (P-680) in Photosystem II particles from *Synechococcus* sp. (890) 23
- Schmid, G.H., see Pistorius, E.K. (890) 352
- Schmidt, G. and Gräber, P.
The rate of ATP synthesis catalyzed by reconstituted CF_0F_1 -liposomes: dependence on ΔpH and $\Delta \psi$ (890) 392
- Schmidt, W. and Senger, H.
Long-term delayed luminescence in *Scenedesmus obliquus* I. Spectral and kinetic properties (890) 15
- Schumann, J.
Characterization of nucleotide binding sites on the membrane-bound chloroplast ATP synthase (coupling factor CF_1) (890) 326
- Senger, H., see Schmidt, W. (890) 15
- Senior, A.E., see Cox, G.B. (890) 195
- Shibata, H., see Nishida, T. (890) 82
- Shinohara, Y. and Terada, H.
Possible involvement of the 29 kDa protein in H^+ -ATPase in the action of cationic uncoupler of oxidative phosphorylation. Effect of the (*o*-phenanthroline) $_2$ - Cu^{2+} complex as a cationic uncoupler (890) 387
- Sinjorgo, K.M.C., Hakvoort, T.B.M., Durak, I., Draijer, J.W., Post, J.K.P. and Muijsers, A.O.
Human cytochrome *c* oxidase isoenzymes from heart and skeletal muscle; purification and properties (890) 144
- Styring, S., Miyao, M. and Rutherford, A.W.
Formation and flash-dependent oscillation of the S_2 -state multiline EPR signal in an oxygen-evolving Photosystem-II preparation lacking the three extrinsic proteins in the oxygen-evolving system (890) 32
- Suter, F., see Bürgi, R. (890) 346
- Tagawa, K., see Nishida, T. (890) 82
- Takamiya, K.-i., Iba, K. and Okamura, K.
Reaction center complex from an aerobic photosynthetic bacterium, *Erythrobacter* species OCH 114 (890) 127
- Tamura, N. and Cheniae, G.
Photoactivation of the water-oxidizing complex in Photosystem II membranes depleted of Mn and extrinsic proteins. I. Biochemical and kinetic characterization (890) 179
- Terada, H., see Shinohara, Y. (890) 387
- Tommasino, M., Prezioso, G. and Palmieri, F.
Photoaffinity labeling of the mitochondrial phosphate carrier by 4-azido-2-nitrophenyl phosphate (890) 39
- Unemoto, T., see Hayashi, M. (890) 47
- Vallejos, R.H., see Lucero, H.A. (890) 77
- Van Dorssen, R.J., Plijter, J.J., Dekker, J.P., Den Ouden, A., Ames, J. and Van Gorkom, H.J.
Spectroscopic properties of chloroplast grana membranes and of the core of Photosystem II (890) 134
- Van Gorkom, H.J., see Van Dorssen, R.J. (890) 134
- Venturoli, G., see García, A.F. (890) 335
- Vial, C., see Marcillat, O. (890) 233
- Völker, M., Eckert, H.-J. and Renger, G.
Effects of trypsin and bivalent cations on P-680 $^{+}$ -reduction, fluorescence induction and oxygen evolution in Photosystem II membrane fragments from spinach (890) 66
- Warden, J.T. and Csatorday, K.
On the mechanism of linolenic acid inhibition in Photosystem II (890) 215
- Warden, J.T., see Csatorday, K. (890) 224
- Webb, D., see Cox, G.B. (890) 195
- Whitmarsh, J., see Hangarter, R.P. (890) 106
- Yachandra, V.K., see Cole, J. (890) 395
- Yang, F.D., see Gwak, S.H. (890) 319
- Yoshida, Y., see Nishida, T. (890) 82
- Youvan, D.C., see Prince, R.C. (890) 286
- Yu, C.A., see Gwak, S.H. (890) 319
- Yu, L., see Gwak, S.H. (890) 319
- Zhou, Q., Robert, B. and Lutz, M.
Intergeneric structural variability of the primary donor of photosynthetic bacteria: resonance Raman spectroscopy of reaction centers from two *Rhodospirillum* and *Rhodobacter* species (890) 368
- Zuber, H., see Bürgi, R. (890) 346