

AUTHOR INDEX

- Adams, M.W.W., Rao, K.K., Hall, D.O., Christou, G. and Garner, C.D.
Biological activity of synthetic molybdenum-iron-sulphur, iron-sulphur and iron-selenium analogues of ferredoxin-type centres (589) 1
- Agalidis, I., Lutz, M. and Reiss-Husson, F.
Binding of carotenoids on reaction centers from *Rhodospseudomonas sphaeroides* R 26 (589) 264
- Arntzen, C.J., see Mullet, J.E. (589) 100
- Bäckström, D., see Tangerås, A. (589) 162
- Barber, J., see Chow, W.S. (589) 346
- Bauer, K., Conrad, R. and Seiler, W.
Photooxidative production of carbon monoxide by phototrophic microorganisms (589) 46
- Bertsch, W., see Vambutas, V. (589) 10
- Brendel, K., see Kim, H.D. (589) 256
- Bronstein, W., see Vambutas, V. (589) 10
- Chamorovsky, S.K., Kononenko, A.A., Remennikov, S.M. and Rubin, A.B.
The oxidation rate of high-potential c-type cytochrome in the photochemical reaction centre is temperature independent (589) 151
- Chow, W.S. and Barber, J.
9-Aminoacridine fluorescence changes as a measure of surface charge density of the thylakoid membrane (589) 346
- Christou, G., see Adams, M.W.W. (589) 1
- Collard, F., see Siefertmann-Harms, D. (589) 315
- Conner, R.T., see Kim, H.D. (589) 256
- Conrad, R., see Bauer, K. (589) 46
- Davenport, J.W. and McCarty, R.E.
The onset of photophosphorylation correlates with the rise in transmembrane electrochemical proton gradients (589) 353
- De Grooth, B.G., Van Gorkom, H.J. and Meiburg, R.F.
Electrochromic absorbance changes in spinach chloroplasts induced by an external electrical field (589) 299
- Dorrer, E., see Kröger, A. (589) 118
- Douce, R., see Neuburger, M. (589) 176
- Drews, G., see Staehelin, L.A. (589) 30
- Earle, S.R., see O'Neal, S.G. (589) 217
- Ehrenberg, A., see Tangerås, A. (589) 162
- Elliot, W.B., see Malviya, A.N. (589) 137
- Evtodienko, Y.V., Zinchenko, V.P., Holmuhamedov, E.L., Gylkhandanyan, A.V. and Zhabotinsky, A.M.
The stoichiometry of ion fluxes during Sr^{2+} -induced oscillations in mitochondria (589) 157
- Fisher, R.R., see O'Neal, S.G. (589) 217
- Flatmark, T., see Tangerås, A. (589) 162
- Forrest, Q.G., see Stephenson, D.G. (589) 358
- Garner, C.D., see Adams, M.W.W. (589) 1
- Golecki, J.R., see Staehelin, L.A. (589) 30
- Gould, J.M., see Underwood, C. (589) 287
- Gylkhandanyan, A.V., see Evtodienko, Y.V. (589) 157
- Hall, D.O., see Adams, M.W.W. (589) 1
- Heinrich, P.C., see Nagasawa-Fujimori, H. (589) 336
- Holmuhamedov, E.L., see Evtodienko, Y.V. (589) 157
- Jankulovska, L., see Martens, M.E. (589) 190
- Kaniuga, Z., see Michalski, W.P. (589) 84
- Kim, H.D., Watts, R.P., Luthra, M.G., Schwalbe, C.R., Conner, R.T. and Brendel, K.
A symbiotic relationship of energy metabolism between a 'non-glycolytic' mammalian red cell and the liver (589) 256
- Kononenko, A.A., see Chamorovsky, S.K. (589) 151
- Kröger, A., Dorrer, E. and Winkler, E.
The orientation of the substrate sites of formate dehydrogenase and fumarate reductase in the membrane of *Vibrio succinogenes* (589) 118

- Lee, C.P., see Martens, M.E. (589) 190
- Lub, J., see Wilms, J. (589) 324
- Luthra, M.G., see Kim, H.D. (589) 256
- Lutz, M., see Agalidis, I. (589) 264
- Malviya, A.N., Nicholls, P. and Elliott, W.B.
Observations on the oxidoreduction of the two cytochromes b in cytochrome c deficient mitochondria and submitochondrial particles (589) 137
- Marecek, J.F., see Ramirez, F. (589) 21
- Martens, M.E., Jankulovska, L., Neymark, M.A. and Lee, C.P.
Impaired substrate utilization in mitochondria from strain 129 dystrophic mice (589) 190
- McCarty, R.E., see Davenport, J.W. (589) 353
- Meiburg, R.F., see De Grooth, B.G. (589) 299
- Melis, A. and Thielen, A.P.G.M.
The relative absorption cross-section of Photosystem I and Photosystem II in chloroplasts from three types of *Nicotiana tabacum* (589) 275
- Michalski, W.P. and Kaniuga, Z.
Photosynthetic apparatus in chilling-sensitive plants. VII. Comparison of the effect of galactolipase treatment of chloroplasts and cold-dark storage of leaves of photosynthetic electron flow (589) 84
- Michel, J.-M., see Siefermann-Harms, D. (589) 315
- Muller, J.L.M., see Roveri, O.A. (589) 241
- Muller, J.L.M., see Wiolders, J.P.M. (589) 231
- Mullet, J.E. and Arntzen, C.J.
Simulation of grana stacking in a model membrane system; mediation by a purified light-harvesting pigment-protein complex from chloroplasts (589) 100
- Nagasawa, T., see Nagasawa-Fujimori, H. (589) 336
- Nagasawa-Fujimori, H., Nagasawa, T. and Heinrich, P.C.
Catalytic activity and arrangement of subunit polypeptides in rat liver cytochrome c oxidase as studied by proteolysis (589) 336
- Nauburger, M. and Douce, R.
Effect of bicarbonate and oxaloacetate on malate oxidation by spinach leaf mitochondria (589) 176
- Neymark, M.A., see Martens, M.E. (589) 190
- Nicholls, P., see Malviya, A.N. (589) 137
- O'Neal, S.G., Earle, S.R. and Fisher, R.R.
The effect of metal ions on mitochondrial pyridine dinucleotide transhydrogenase (589) 217
- Pfister, C. and Pougeois, R.
Electrical response of beef-heart submitochondrial particles bound to phospholipid-impregnated millipore filters during ATP hydrolysis (589) 201
- Pougeois, R., see Pfister, C. (589) 201
- Ramirez, F., and Marecek, J.F.
Coordination of magnesium with adenosine 5'-diphosphate and triphosphate (589) 21
- Rao, K.K., see Adams, M.W.W. (589) 1
- Reiss-Husson, F., see Agalidis, I. (589) 264
- Remennikov, S.M., see Chamorovsky, S.K. (589) 151
- Roveri, O.A., Muller, J.L.M., Wilms, J. and Slater, E.C.
The pre-steady state and steady-state kinetics of the ATPase activity of mitochondrial F_1 (589) 241
- Rubin, A.B., see Chamorovsky, S.K. (589) 151
- Sarai, A.
Possible role of protein in photosynthetic electron transfer (589) 71
- Sauer, K., see Wydrzynski, T. (589) 56
- Schwalbe, C.R., see Kim, H.D. (589) 256
- Seiler, W., see Bauer, K. (589) 46
- Siefermann-Harms, D., Michel, J.-M. and Collard, F.
Carotenoid transformations underlying the blue absorbance change in flashed leaves during the induction of oxygen evolution (589) 315
- Slater, E.C., see Roveri, O.A. (589) 241
- Slater, E.C., see Wiolders, J.P.M. (589) 231
- Staehelin, L.A., Golecki, J.R. and Drews, G.
Supramolecular organization of chlorosomes (chlorobium vesicles) and of their membrane attachment sites in *Chlorobium limicola* (589) 30
- Stephenson, D.G. and Forest, Q.G.
Different isometric force- $[Ca^{2+}]$ relationships in slow and fast twitch skinned muscle fibres of the rat (589) 358
- Tangerås, A., Flatmark, T., Bäckström, D. and Ehrenberg, A.
Mitochondrial iron not bound in heme and iron-sulfur centers. Estimation, compartmentation and redox state (589) 162
- Thielen, A.P.G.M., see Melis, A. (589) 275

Underwood, C. and Gould, J.M.

Proton efflux through the chloroplast ATP synthetase ($CF_0 \cdot CF_1$) in the presence of sylvhydriyl-modifying agents (589) 287

Vambutas, V., Bronstein, W. and Bertsch, W.

AMP photophosphorylation and binding by chloroplasts (589) 10

Van Gorkom, H.J., see De Grooth, B.G. (589) 299

Watts, R.P., see Kim, H.D. (589) 256

Wever, R., see Wilms, J. (589) 324

Wielders, J.P.M., Slater, E.C. and Muller, J.L.M.

Binding of ADP to beef-heart mitochondrial ATPase (F_1) (589) 231

Wilms, J., Lub, J. and Wever, R.

Reactions of mercaptans with cytochrome c oxidase and cytochrome c (589) 324

Wilms, J., see Roveri, O.A. (589) 241

Winkler, E., see Kröger, A. (589) 118

Wydrzynski, T. and Sauer, K.

Periodic changes in the oxidation state of manganese in photosynthetic oxygen evolution upon illumination with flashes (589) 56

Zhabotinsky, A.M., see Evtodienko, Y.V. (589) 157

Zinchenko, V.P., see Evtodienko, Y.V. (589) 157