

INDEXES TO VOLUME 311 (B)

Author index

- Baird, G. C., Sroka, S. D., Shabica, C. W. & Beard, T. L. Mazon Creek-type fossil assemblages in the U.S. midcontinent Pennsylvanian: their recurrent character and palaeoenvironmental significance, 87.
- Barton, Sir Derek & Zard, S. Z. Radicals: their importance in synthetic chemistry and their relevance to biology, 505.
- Beard, T. L. *See* Baird *et al.*
- Bielski, B. H. J. Fast kinetic studies of dioxygen-derived species and their metal complexes, 473.
- Blake, D. *See* Halliwell *et al.*
- Boxshall, G. A. The comparative anatomy of two copepods, a predatory calanoid and a particle-feeding mormonilloid, 303.
- Briggs, D. E. G. *See* Mikulic *et al.*
- Burton, G. W., Foster, D. O., Perly, B., Slater, T. F., Smith, I. C. P. & Ingold, K. U. Biological antioxidants, 565.
- Cadenas, E. *See* Sies & Cadenas.
- Calderwood, T. S. *See* Roberts *et al.*
- Caveney, S. *See* McIntyre & Caveney.
- Chaloner, W. G. Problems with permineralization of peat, 139.
- Cheeseman, K. H. *See* Slater *et al.*
- Diehl, W. W. *See* Walker & Diehl.
- Dixon, Ruth M., Golding, B. T., Mwesigye-Kibende, S. & Ramakrishna Rao, D. N. Concerning the intermediacy of organic radicals in vitamin B₁₂-dependent enzymic reactions, 531.
- Dolphin, D. Cytochrome P₄₅₀: substrate and prosthetic-group free radicals generated during the enzymatic cycle, 579.
- Dunster, Christina A. *See* Willson *et al.*
- Ewing, A. W. *See* Miyan & Ewing.
- Fedonkin, M. A. Precambrian metazoans: the problems of preservation, systematics and evolution, 27.
- Ferm, J. C. *See* Hook & Ferm.
- Fisher, I. St J. & Hudson, J. D. Pyrite geochemistry and fossil preservation in shales, 167.
- Fitchett, M., Gilbert, B. C. & Jeff, M. Chemical models and radiation damage, 517.
- Forni, L. G. *See* Willson *et al.*
- Foster, D. O. *See* Burton *et al.*
- Franzen, J. L. Exceptional preservation of Eocene vertebrates in the lake deposit of Grube Messel (West Germany), 181.
- Gee, Carolyn A. *See* Willson *et al.*
- Geissler, Elizabeth A. *See* Singh & Geissler.
- Gilbert, B. C. *See* Fitchett *et al.*
- Golding, B. T. *See* Dixon *et al.*
- Goldring, R. Fossil Lagerstätten, 25.
- Gutteridge, J. M. C. *See* Halliwell *et al.*
- Halliwell, B., Gutteridge, J. M. C. & Blake, D. Metal ions and oxygen radical reactions in human inflammatory joint disease, 659.
- Hill, H. A. O. Dioxygen-derived radicals in biological systems, 605.
- Holyoak, D. T. & Preece, R. C. Late Pleistocene interglacial deposits at Tattershall, Lincolnshire, 193.
- Hook, R. W. & Ferm, J. C. A depositional model for the Linton tetrapod assemblage (Westphalian D, Upper Carboniferous) and its palaeoenvironmental significance, 101.
- Hudson, J. D. *See* Fisher & Hudson.
- Ingold, K. U. *See* Burton *et al.*
- Ingold, K. U. *See* Slater *et al.*

- Jeff, M. *See* Fitchett *et al.*
- Kittridge, Katherine J. *See* Willson *et al.*
- Kluessendorf, Joanne. *See* Mikulic *et al.*
- Knoll, A. H. Exceptional preservation of photosynthetic organisms in silicified carbonates and silicified peats, 111.
- Martill, D. M. The preservation of marine vertebrates in the Lower Oxford Clay (Jurassic) of central England, 155.
- McDowell, M. S. *See* Sawyer *et al.*
- McIntyre, P. & Caveney, S. Graded-index optics are matched to optical geometry in the superposition eyes of scarab beetles, 237.
- Mikulic, D. G., Briggs, D. E. G. & Kluessendorf, Joanne. A new exceptionally preserved biota from the Lower Silurian of Wisconsin, U.S.A., 75.
- Miyah, J. A. & Ewing, A. W. How Diptera move their wings: a re-examination of the wing base articulation and muscle systems concerned with flight, 271.
- Morris, S. Conway. Cambrian Lagerstätten: their distribution and significance, 49.
- Morris, S. Conway. Concluding remarks, 187.
- Müller, K. J. Exceptional preservation in calcareous nodules, 67.
- Mweisgye-Kibende, S. *See* Dixon *et al.*
- Orrenius, S. Oxidative stress studied in intact mammalian cells, 673.
- Perly, B. *See* Burton *et al.*
- Pinna, G. Exceptional preservation in the Jurassic of Osteno, 171.
- Preece, R. C. *See* Holyoak & Preece.
- Ramakrishna Rao, D. N. *See* Dixon *et al.*
- Reif, W.-E. *See* Seilacher *et al.*
- Rex, G. *See* Scott & Rex.
- Riley, P. A. Radicals and melanomas, 679.
- Roberts, Jr, J. L. *See* Sawyer *et al.*
- Sawyer, D. T., Roberts, Jr, J. L., Calderwood, T. S., Sugimoto, H. & McDowell, M. S. Reactivity and activation of dioxygen-derived species in aprotic media (a model matrix for biomembranes), 483.
- Scott, A. C. & Rex, G. The formation and significance of Carboniferous coal balls, 123.
- Seilacher, A. Discussion of Precambrian metazoans, 47.
- Seilacher, A., Reif, W.-E. & Westphal, F. Sedimentological, ecological and temporal patterns of fossil Lagerstätten, 5.
- Shabica, C. W. *See* Baird *et al.*
- Sies, H. & Cadenas, E. Oxidative stress: damage to intact cells and organs, 617.
- Singh, G. & Geissler, Elizabeth A. Late Cainozoic history of vegetation, fire, lake levels and climate, at Lake George, New South Wales, Australia, 379.
- Slater, T. F. *See* Burton *et al.*
- Slater, T. F., Cheeseman, K. H. & Ingold, K. U. Carbon tetrachloride toxicity as a model for studying free-radical mediated liver injury, 633.
- Smith, I. C. P. *See* Burton *et al.*
- Smith, L. L. Paraquat toxicity, 647.
- Sroka, D. *See* Baird *et al.*
- Sugimoto, H. *See* Sawyer *et al.*
- Symons, M. C. R. Inorganic radicals of relevance to biological systems, 451.
- Walker, K. R. & Diehl, W. W. The role of marine cementation in the preservation of Lower Palaeozoic assemblages, 143.
- Westphal, F. *See* Seilacher *et al.*
- Whittington, H. B. Introduction, 3.
- Williams, R. J. P. The necessary and the desirable production of radicals in biology, 593.
- Willson, R. L., Dunster, Christina A., Forni, L. G., Gee, Carolyn A. & Kittridge, Katherine J. Organic free radicals and proteins in biochemical injury: electron- or hydrogen-transfer reactions?, 545.
- Zard, S. Z. *See* Barton & Zard.

Subject index

Brunhes record of vegetation, fire, lake levels and climate at Lake George, Australia, 379.

Copepod anatomy, 303.

Discussion on extraordinary fossil biotas: their ecological and evolutionary significance; for detailed contents see pp. 1 and 2.

Discussion on inorganic and organic radicals: their biological and clinical relevance; for detailed contents see pp. 449 and 450.

Fossil biotas: their ecological and evolutionary significance, Discussion; for detailed contents see pp. 1 and 2.

Functional morphology of copepods, 303.

Graded-index lenses in beetle eyes, 237.

Ipswichian deposits at Tattershall, Lincolnshire, 193.

Late Cainozoic vegetation, palaeotemperatures and palaeoprecipitation at Lake George, Australia, 379.

Muscles and mechanics of wing movements, 271.

Pleistocene interglacial deposits at Tattershall, Lincolnshire, 193.

Radicals, inorganic and organic: their biological and clinical relevance, Discussion; for detailed contents see pp. 449 and 450.

Scarab beetles, superposition eyes of, 237.

Wing movements in Diptera, 271.

End of the three hundred and eleventh volume – Series B