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INCLUDING ELECTROPHORESIS AND OTHER SEPARATION METHODS

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JOURNAL OF CHROMATOGRAPHY

INCLUDING ELECTROPHORESIS AND OTHER SEPARATION METHODS

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18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

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117 (1992) 187512t, 229618q, 247933t;
118 (1993) 5811e.

See also 1642, 1682, 1723, 1796, 1797, 1799, 1804, 2010, 2050, 2191, 2210, 2225, 2279, 2311, 2413, 2629.

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19i. Proteins of glands, gland products, various zymogens (incl. milk proteins)

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For additional information see *C.A.*:
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See also 1855, 1933.

20b. Transferases (excl. E.C. 2.7.-.-)

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21. PURINES, PYRIMIDINES, NUCLEIC ACIDS AND THEIR CONSTITUENTS

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32h. Toxicological and forensic applications

See 1645, 1884, 1903, 2066, 2103, 2105, 2281, 2599, 2855, 3021.

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33. CLINICO-CHEMICAL APPLICATIONS

33b. Complex mixtures and profiling (single compounds by cross-reference only)

See 1732, 1860, 1921, 1929, 1948, 1964, 1977, 1989, 2007, 2042, 2044, 2045, 2047, 2056, 2058, 2065, 2109, 2117, 2121, 2123, 2132, 2136, 2162, 2164, 2210, 2288, 2290, 2303, 2305, 2320, 2329, 2381, 2473, 2480, 2484, 2508, 2576, 2590, 2624, 2995.

34. FOOD ANALYSIS

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Planar Chromatography

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See also 313, 349, 356, 447, 449.

33. CLINICO-CHEMICAL APPLICATIONS

33b. Complex mixtures and profiling (single compounds by cross-reference only)

See 415.

34. FOOD ANALYSIS

34a. General papers and reviews

See 333, 352, 396, 465, 469, 470, 484.

34b. Complex mixtures (single compounds by cross-reference only)

See 351, 353, 391, 401, 422, 468, 490, 494, 516.

34c. Organoleptically important compounds (flavors, odors, volatiles)

See 525.

35. ENVIRONMENTAL ANALYSIS

35b. Air pollution (complex mixtures; single compounds by cross-reference only)

See 456.

36. SOME TECHNICAL PRODUCTS AND COMPLEX MIXTURES

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See 532.

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Atmospheric Oxidation and Antioxidants, Volume III

edited by **G. Scott**

Oxidation by molecular oxygen is one of the most practically important of all chemical processes. It is the basis of energy production in animals and, at the same time, a major cause of irreversible deterioration and ultimate death. Man uses oxygen positively in the production of energy by combustion, and many important industrial processes in the petrochemical industry are based on the controlled oxidation of hydrocarbons. At the same time, oxidation is the main cause of deterioration of foodstuffs and of many industrial polymers. It is clearly of great practical importance that the mechanisms of oxidation and its prevention should be understood in order to utilise the reactions of oxygen more effectively but, equally important, to control the adverse effects of oxygen on man-made products and in biological systems. The three volumes of this work are directed towards these objectives. Although complementary to one another, the three volumes form a single whole and it is hoped that, by frequent cross-reference, the reader will be enabled to utilise ideas and experience from other disciplines to enlighten his own.

Volume III addresses our present understanding of how oxidation is involved both positively and negatively in life processes. This is a more recent and rapidly developing aspect of oxidation chemistry and many of the concepts still have to be proved by rigorous scientific investigation. Nevertheless, the mechanistic principles developed as a result of studies *in vitro* over the years now provide the basis for understanding the complex oxidation chemistry of life processes and its control by biological antioxidants.

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