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A Review of: "Organic Sulfur Chemistry. Volume 1 and 2 (in Japanese), edited S. Oae, Kagakudojin, Kyoto. 1982."

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BOOK REVIEW

Organic Sulfur Chemistry. Volume 1 and 2 (in Japanese), edited S. Oae, Kagakudojin, Kyoto. 1982.

The organosulfur compounds, which exhibit a wide variety of reactivity as compared to the corresponding oxygen analogs, are an interesting and important family not only from the viewpoint of organic reaction mechanisms and organic synthesis, but also from a biological point of view. "Chemistry of Organosulfur Compounds" published in 1968 by Professor Oae, a pioneer in this field, was the first illustrious book in Japan.

Now, Professor Oae and his colleagues provided a new edition of "Organic Sulfur Chemistry" as two volumes covering more than 3600 references in the rapidly expanding field of sulfur chemistry. The first volume deals with the reaction mechanisms of sulfur chemistry, comprising 7 chapters with 440 pages. The chapter headings are 1: Sulfur Bonding (S. Oae and S. Tamagaki), 40 pages, 78 references; 2: Stereoelectronic Effects of Sulfur-Containing Groups (S. Oae), 40 pages, 179 references; 3: Stereochemistry (S. Oae and N. Kunieda), 80 pages, 326 references; 4: Substitution Reactions (S. Oae), 97 pages, 347 references; 5: Oxidation (S. Oae), 102 pages, 519 references; 6: Reduction (S. Oae), 36 pages, 171 references; 7: Rearrangements (S. Oae), 42 pages, 182 references.

Synthesis and reactions of organosulfur compounds are dealt with in the second volume with 12 chapters. The chapter titles are 1: Elemental Sulfur (S. Oae and R. Sato), 28 pages, 136 references; 2: Thiols and Thioketones (A. Ohno), 26 pages, 136 references; 3: Sulfides (W. Tagaki), 27 pages, 84 references; 4: Disulfides and Polysulfides (S. Oae and Y. Kim), 45 pages, 282 references; 5: Thiolsulfinates and Thiosulfonates (S. Oae), 31 pages, 162 references; 6: Sulfoxides (N. Numata), 37 pages, 222 references; 7: Sulfilimines (N. Furukawa), 35 pages, 141 references; 8: Sulfonium Salts and Sulfonium Ylides (W. Ando), 50 pages, 195 references; 9: Sulfones and Sulfoximines (M. Kise), 46 pages, 161 references; 10: Sulfinic Acids, Sulfonic Acids, and their Derivatives (T. Kitao), 23 pages, 100 references; 11: Sulfur-Containing Heterocyclic Compounds (M. Hori and H. Shimizu), 44 pages, 135 references; 12: Polymers (M. Yoshihara), 11 pages, 79 references.

The books cover all areas of organic sulfur chemistry and are equipped with copious chemical substance, subject, and author indexes. These volumes would be excellent source guides for organic chemists and useful textbooks for graduate students.

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