1. Record Nr. UNINA9910583491303321 Autore Tressaud Alain

Titolo Fluorine: a paradoxical element / / Alain Tressaud

Pubbl/distr/stampa Amsterdam, Netherlands:,: Elsevier,, [2019]

©2019

ISBN 0-12-812991-3

0-12-812990-5

Descrizione fisica 1 online resource (274 pages)

Collana Progress in Fluorine Science Series: Volume 5

Disciplina 546.731

Soggetti Fluorides

Fluorides - Physiological effect

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

History and milestones of fluorine and fluorinated products through the Nota di contenuto

centuries. 1. History and uses of fluorinated minerals; 2. Fluorine dating in archeology; 3. The true nature of the Roman murrhine through a critical lecture of Pliny the Elder's "Naturalis Historia"; 4. Georgius Agricola, the father of mineralogy and creator of the word "fluoride"; 5. In search of the missing halogen, from the Renaissance to 1886; 6. The isolation of fluorine on June 1886 by a pharmacist and chemist: Henri Moissan; 7. Physical chemical characteristics of fluorine ; 8. Some breakthroughs in the development of fluorine and fluorinated products throughout the 20th century -- Fluorine, a key element for the 21st century. 1. Advances in organic fluorine chemistry; 2. Advances in new fluorination routes, surface functionalization, and nanosized fluorocompounds; 3. Industrial applications of fluoride minerals, gases, and inorganic fluorinated products: 4. Uses of fluorides in photonics; 5. Uses of fluorides in electronics and other modern technologies; 6. Contributions of fluorinated products in medicine, pharmacy, and biotechnologies; 7. Plant protection products and insecticides -- Fluorinated compounds in our environment : fluorine, friend or foe for humanity? 1. Genesis and cosmo-chemistry of fluorine: 2. Fluorine and our atmosphere: 3. Fluorine and the

lithosphere; 4. Fluorine, friend or foe for human health?; 5.

Sommario/riassunto

Contamination and physiological effects of fluoride on living organisms; 6. Improving the quality of drinking water by defluoridation.

Fluorine: A Paradoxical Element, Volume Five, deals with the link between fluorine, humanity and the environment. It is divided into three main sections, including i) The history and developmental stages of fluorinated products, ii) Awareness of its importance in our environment, and iii) Recent contributions of fluoride products in medicine, pharmacy and our daily lives. Made engaging through interesting figures and accessible language, and written by a leading expert, Professor Tressaud, the book supports the work of scientists working in materials, toxicology and environmental science. It complements the author's edited series, Progress in Fluorine Science, covering recent advances.--