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Fluorine And The Environment: Agrochemicals, Archaeology, Green Chemistry And Water, Volume 2 (Advances In Fluorine Science)



Synopsis

Advances in Fluorine Science is a new book series presenting critical multidisciplinary overviews on areas in which fluorine and fluoride compounds have a decisive impact. The individual volumes of Advances in Fluorine Science are thematic, addressing comprehensively both the science and applications on topics including the Environment, Green chemistry, Medicine, Health & Life Sciences, New Technologies & Materials Science, Energy and the Earth Sciences. In the present volume, the key-position of fluoro-products in agriculture is reviewed, since a large percentage of agro-chemicals and pesticides contain at least one fluorine atom. However, improvements in the use of fluorine-based products in agrochemicals cannot be developed without taking into consideration a safer environment, on both levels of greener synthesis routes and a reduction of the negative impact on plants and organisms. Within this scope, fluorine has a very peculiar place, since its high reactivity yields several advantages, for instance in by-passing various polluting multi-step reactions. Fluorine-based materials are reviewed as efficient tools for protecting our cultural heritage. Also using up-to-date techniques such as ion beam analysis, this element can help relative dating applications, ranging from burial durations of archaeological bones and teeth to the determination of exposure ages of meteorites on the Antarctic ice shield. Providing an original approach of the complex relationships between chemistry and the environment. Reviewing the key-position of fluoro-products in agriculture. Multidisciplinary contributions from chemists, geologists, biologists, environmentalists and industry staffs.

Book Information

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Customer Reviews

Alain Tressaud is Emeritus Research Director at ICMCB-CNRS, Bordeaux University. He is Vice President of the European Academy of Science (Brussels) and member of several European Academies. He founded and chaired until 2008 the French Network on Fluorine Chemistry, sponsored by CNRS. Among the awards he received, the CEA Award of French Academy of Sciences (2008), Fluorine Award of the American Chemical Society (2011), and International Henri Moissan Prize (2013) can be quoted. His scientific interest covers various fields, e.g. synthesis, physical chemical characterizations, applications in fluorine chemistry, solid state chemistry, and materials sciences. His works also deal with surface modification of materials and intercalation chemistry. His scientific production includes more than 350 papers in international journals, 20 book chapters contributions, and 12 internationalized patents. In addition, he edited 5 books, including the Editor-in-Chief responsibility of the book series "Advances in Fluorine Science" (2006) and "Progress in Fluorine Science" (2016) with Elsevier. In 2011, his book on "Le fluor: histoire, applications & paradoxes" appeared at CNRS-Editions, Paris.

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