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Fluorinated organic compound and green sustainability

Fluorinated organic compounds have generally unique properties, such as high heat and chemical resistances, high durability to ultra violet light, low friction coefficient, low surface tension, low adhesion, low dielectric constant and low refractive index, etc., based on the high electron negativity, relatively small van der Waal's radii of fluorine atom itself and high C-F bond energy. Therefore, many pharmaceuticals, agrochemicals, anaesthetics, refrigerants and high performance materials such as plastics, elastomers, membranes, textile finishes and coatings contain fluorine atoms within their structures for exhibiting their important properties. It can be said that fluorine is an essential element for life and impacts on the general public. The presentation will be discussed the contribution of the fluorinated materials to green sustainability by demonstrating some examples.

Biography

Yoshitomi Morizawa has spent 1 year in the Laboratory of Late Professor H G Vieheat at the Universite Catholique de Louvain, Belgium during the period of the Doctoral course and undertook a PhD in Industrial Chemistry at Kyoto University in the year 1984 under the guidance of Professor Hitosi Nozaki. Currently, he is working at the Asahi Glass Co. Ltd., Japan. He has been engaged in the development of fluorinated organic compounds in the field of specialty chemicals, especially pharmaceutical drugs, agrochemical agents, intermediates, fluoropolymers, fluorination methods and their processes. He has published more than 60 papers in journals and filed a patent of more than 140.

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