

Modern Synthesis Processes and Reactivity of Fluorinated Compounds: Progress in Fluorine Science

From Groult Henri

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Modern Synthesis Processes and Reactivity of Fluorinated Compounds focuses on the exceptional character of fluorine and fluorinated compounds. This comprehensive work explores examples taken from all classes of fluorine chemistry and illustrates the extreme reactivity of fluorinating media and the peculiar synthesis routes to fluorinated materials.

The book provides advanced and updated information on the latest synthesis routes to fluorocompounds and the involved reaction mechanisms. Special attention is given to the unique reactivity of fluorine and fluorinated media, along with the correlation of those properties to valuable applications of fluorinated compounds.

- Contains quality content edited, and contributed, by leading scholars in the field
- Presents applied guidance on the preparation of original fluorinated compounds, potentially transferable from the lab scale to industrial applications
- Provides practical synthesis information for a wide audience interested in fluorine compounds in many branches of chemistry, materials science, and physics

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Editorial Review

From the Back Cover

Modern Synthesis Processes and Reactivity of Fluorinated Compounds focuses on the exceptional character of fluorine and fluorinated compounds. This comprehensive work explores examples taken from all classes of fluorine chemistry and illustrates the extreme reactivity of fluorinating media and the peculiar synthesis routes to fluorinated materials. It provides advanced and updated information on the latest synthesis routes to fluorocompounds and on the involved reaction mechanisms. Special attention is given to the unique reactivity of fluorine and fluorinated media as well as the correlation of those properties to valuable applications of fluorinated compounds.

The *Progress in Fluorine Science* series covers emerging trends and research. Edited by Alain Tressaud, past chair and founder of the CNRS French Fluorine Network, each book in the collection includes the work of highly respected volume editors and contributors from both academia and industry to bring valuable and varied contents to this active field.

Key features

- Quality content edited and contributed by leading scholars in the field
- Applied guidance on the preparation of original fluorinated compounds, potentially transferable from the laboratory scale to industrial applications
- Practical synthesis information for a wide audience interested in fluorine compounds in many branches of chemistry, physics, materials science, biomedical sciences, and agrochemicals

About the Author
Henri Groult is Director of Research of CNRS-UPMC-ESPCI UMR 7612, University of Pierre and Marie Curie (Paris 6) in France. He has devoted his research life to fluorine chemistry, electrochemistry, and molten salt chemistry. His main research subjects are electrolytic production of fluorine gas, fluorine compounds for primary and secondary lithium batteries, and electrochemical properties of molten fluorides and chlorides. He has obtained interesting results on fluorine evolution reaction on carbon electrodes, discharge behavior of carbon-fluorine compounds, charge/discharge characteristics of metal fluorides, and electrochemical properties of molten salts. On these subjects, he published more than 100 papers and 7 books. His activity has played an important role in fluorine chemistry in France. He has served as Director of the French Network of Fluorine, Chairman of the 17th European Symposium on Fluorine Chemistry (Paris, July 2013), and Editorial board of J. Fluorine Chemistry.

Frederic Leroux is CNRS Research Director at the University of Strasbourg. He is Director of the joint CNRS-Bayer laboratory of organofluorine chemistry and deputy director of the molecular chemistry department (LCM) at the European School of Chemistry, Polymers and Material Sciences. His research is published in >95 peer-reviewed papers, 16 patents, 6 book chapters and presented by invitation at >80 (inter)national conferences. He is Fellow of the Royal Society of Chemistry (FRSC). He is also a member of the International Scientific Committee of the Moissan Prize (Fluorine Chemistry) and Coordinator of the French Fluorine Network.
His scientific interest covers various fields, based on a fruitful interplay of several objectives (a) the synthesis of biologically relevant molecules, (b) asymmetric methodologies using organic and

organometallic chemistry, (c) organofluorine chemistry and (d) application of the objectives to industrial problems, which led to strong industrial collaborations.

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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