



# Organofluorine chemistry [ synthesis, modeling, and applications /

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Monografía

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**Contenido:** The Development of New Reagents and Reactions for Synthetic Organofluorine Chemistry by Understanding the Unique Fluorine Effects / Qiqiang Xie, Jinbo Hu -- Perfluoroalkylation Using Perfluorocarboxylic Acids and Anhydrides / Shintaro Kawamura, Mikiko Sodeoka -- Chemistry of OCF<sub>3</sub>, SCF<sub>3</sub>, and SeCF<sub>3</sub> Functional Groups / Fabien Toulgoat, Francois Liger, Thierry Billard -- Introduction of Trifluoromethylthio Group into Organic Molecules / Hangming Ge, He Liu, Qilong Shen -- Bifunctionalization-Based Catalytic Fluorination and Trifluoromethylation / Pinhong Chen, Guosheng Liu -- Fluorination, Trifluoromethylation, and Trifluoromethylthiolation of Alkenes, Cyclopropanes, and Diazo Compounds / Kn J Szabo -- Photoredox Catalysis in Fluorination and Trifluoromethylation Reactions / Takashi Koike, Munetaka Akita -- Asymmetric Fluorination Reactions / Edward Miller, F Dean Toste -- The Self-Disproportionation of Enantiomers (SDE): Fluorine as an SDE-Phoric Substituent / Jianlin Han, Santos Fustero, Hiroki Moriwaki, Alicja Wzorek, Vadim A Soloshonok, Karel D Klika -- DFT Modeling of Catalytic Fluorination Reactions: Mechanisms, Reactivities, and Selectivities / Yueqian Sang, Biying Zhou, Meng-Meng Zheng, Xiao-Song Xue, Jin-Pei Cheng -- Current Trends in the Design of Fluorine-Containing Agrochemicals / Peter Jeschke -- Precision Radiochemistry for Fluorine-18 Labeling of PET Tracers / Jian Rong, Ahmed Haider, Steven Liang

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