

Fragment-based drug discovery and X-ray crystallography

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Abstrak

This book is about structural, physical, and chemical properties of fluorous compounds, selective fluoroalkylation of organic compounds by tackling the “negative fluorine effect”, synthetic and biological applications of fluorous reagents as phase tags, chemical applications of fluorous reagents and scavengers, methods for the synthesis of peptides and oligonucleotides, fluorous organic hybrid solvents for non-fluorous organic synthesis, fluorous catalysis : from the origin to recent advances, fluorous organocatalysis, thiourea based fluorous organocatalyst, fluoroponytailed crown ethers and quaternary ammonium salts as solid–liquid phase transfer catalysts in organic synthesis, fluorous hydrogenation, fluorous hydrosilylation, fluorous hydroformylation, incorporation of fluorous glycosides to cell membrane and saccharide chain elongation teflon AF materials, ecotoxicology of organofluorous compounds, and biology of fluoro-organic compounds.