RESEARCH INTERESTS

<u>Hypervalent iodine chemistry</u>: preparation of ArI(OAc)₂, ArICl₂ and ArIF₂ and their reactions with alkenes, alkynes, monoterpenes, ketones, arenes.

<u>Synthetic organic chemistry</u>: development of efficient synthetic methods and reagents for oxidation of alkenes, alkynes and ketones to 1,2-di- and polycarbonyl compounds, sultones, thiomethyl ethers.

<u>Chemistry of terpenes</u>: oxidation of natural terpenes by HBr-DMSO and ArICl₂ to chloro-, bromo- and iodohydrines, ketones, 1,2-diketones.

<u>Chemistry and analysis of natural raw materials</u>: composition of extracts, oleoresins, volatile oils, etc. from Siberian and Far East plants; synthesis of biologically active natural compounds.

Organofluorine Chemistry: syntheses of perfluoropolymers from perfluoroalcohols