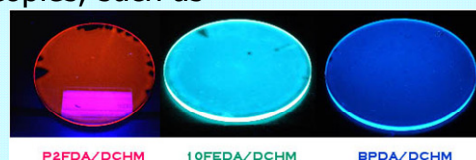
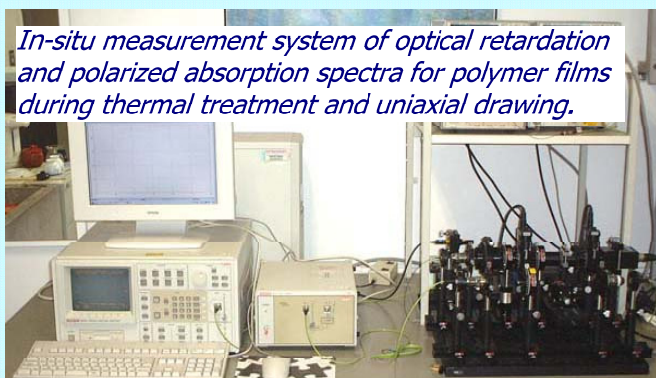


Division of Soft Materials Structure Assoc. Prof. Dr. Shinji ANDO

Our laboratory aims at **proposing and proving key concepts for designing novel fluoropolymers** which demonstrate **outstanding optical and electronic functionalities** accompanying with high thermal and environmental stability for **the Future Information-Technology Society**. Our methodology is based on the knowledge of **what kinds of structures and what kinds of mechanisms** are essential and indispensable for **the molecular design of high performance polymers**. We have high commands at quantum chemical calculations and a variety of non-conventional measurements and spectroscopies, such as ¹⁹F solid-state nuclear magnetic resonance (NMR), polarized attenuated total reflection-IR, near-IR Absorption and reflection, fluorescent emission, refractive index & birefringence, with varying temperature, pressure, and atmosphere.



***Newly designed and synthesized
Highly Fluorescent Polyimides !***

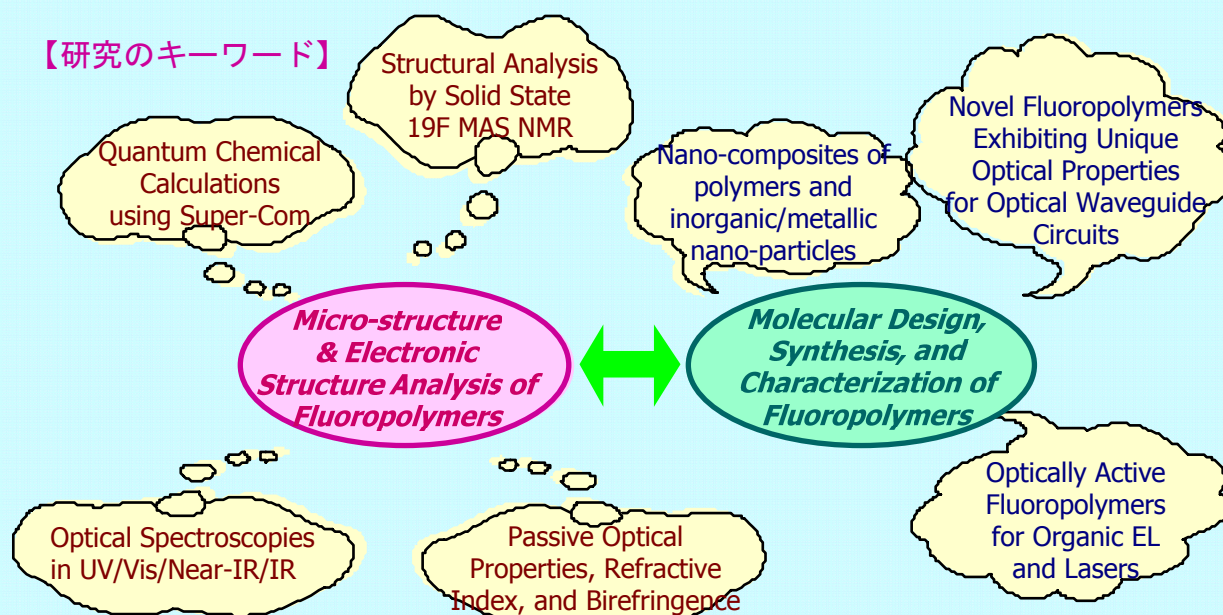


In-situ measurement system of optical retardation and polarized absorption spectra for polymer films during thermal treatment and uniaxial drawing.



*Solid State ¹⁹F-NMR spectroscopy
(Very unique technology in the world !)*

【研究のキーワード】



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