Inorganic Materials Chemistry research fields

Inorganic Materials Chemistry conducts research and education about inorganic chemistry, analytical chemistry, and physical chemistry.

Staff, Research Field

Professor: Dr. Yasushi Umemura

Chemical and physical properties of ultrathin inorganic/organic hybrid films

Professor: Dr. Yukihiro Yoshimura

Physical chemistry of the condensed matter under extreme conditions, Meta-stable transitions of glassy materials, Cryopreservation of proteins in aqueous media

Professor: Dr. Atsushi Asano

Analysis of structure and dynamics of polymeric materials by solid state nuclear magnetic resonance

Associate Professor: Dr. Takahiro Takekiyo

Protein stability in aqueous solutions, Preservation of aqueous protein solutions, Physical chemistry of liquid structure

Lecturer (Assistant Professor): Dr. Hiroki Kimoto

Structure analysis and prediction of peptides in aqueous solutions using molecular dynamics simulations

Lecturer (Assistant Professor): Dr. Chikako Nakazawa

Creation of the peptide materials for application to biomaterials, Structural analyses of peptides by using NMR

Research Associate: Dr. Masanari Hirahara

Photochemistry, photocatalysis, and synthetic chemistry of coordination compounds

Keywords: metal ion-polymer complex, thermal analysis, degradation of materials, inorganic nanosheet, Langmuir-Blodgett film, Raman spectroscopy, high pressure, protein, ionic conduction, electric conduction, magnetic material, clay mineral, nanocomposite, peptide, NMR