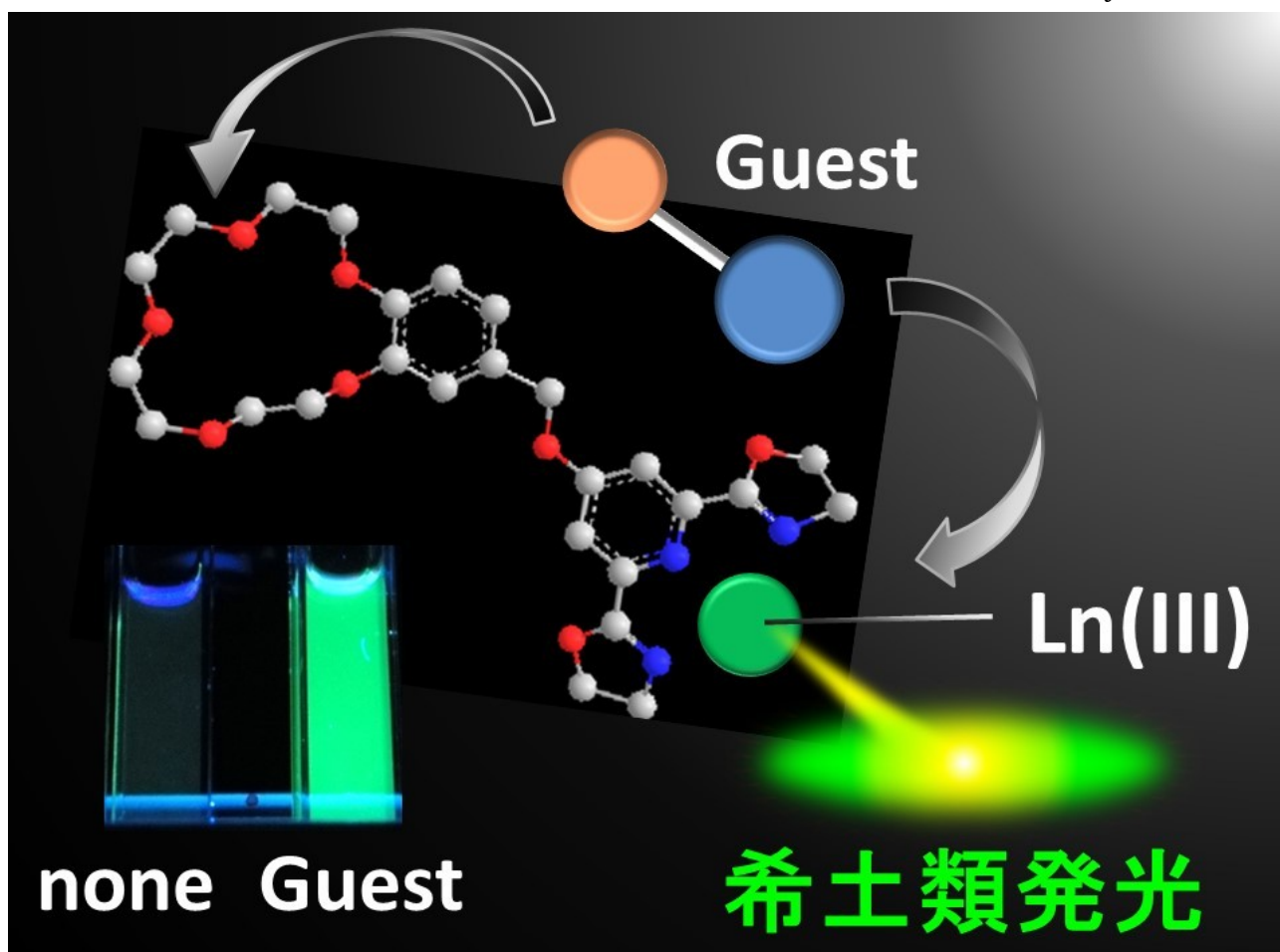


# Luminescence Properties and Sensing with Ln(III) Complexes

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Molecular Recognition of Guest Molecule with Luminescent Lanthanide Complex

Luminescent lanthanide (Ln(III)) complexes have attracted interest as luminescence bio-probes and sensors for recognizing substrates such as biomolecules and inorganic anions, because of the unique photo-physical properties of Ln(III) ions including long lifetime and narrow spectra in visible or near-infrared regions. We have been developing the "Luminescence Sensors with Ln(III) complexes" for the selective detection of the specific target substrates. We also have been investigating the relation between luminescence response of the substrates with Ln(III) complexes and the luminescence properties of Ln(III) ions.

Keywords : Lanthanide Complex, Luminescence Properties, Molecular Recognition, Luminescence Sensor, Host-Guest Chemistry