

Studies on Organic Molecular Assembling Processes by Fluorescence Spectroscopy

(蛍光スペクトル変化に基づく有機分子集合体形成過程の研究)

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Abstract

Many organic molecules exhibit characteristic fluorescence spectral changes that depend on their electronic states, how they assemble, their size, and their ambient environment. In principle, fluorescence spectroscopy can be used to probe the progress of molecular assembly on the scale of just a few molecules or that of a bulk process. According to these line, we investigate the molecular assemble process of organic molecules probed by the fluorescence spectral changes during the solvent evaporation process. This seminar will provide the assembling process during the solvent evaporation of droplets of boron difluoride β -diketonate complex with mechanofluorochromic property and cyano-stilbene derivative with aggregation induced enhancement emission (AIEE) property.

References

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