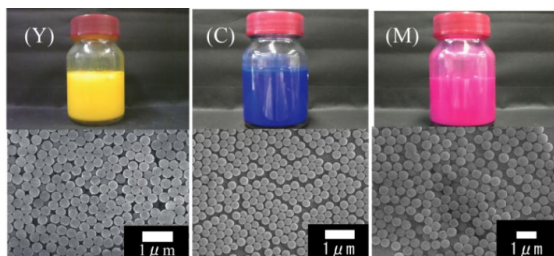
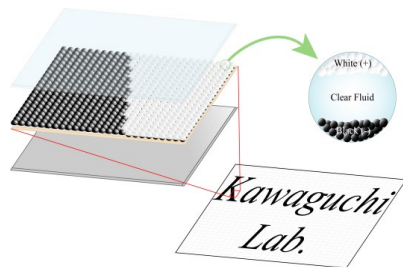
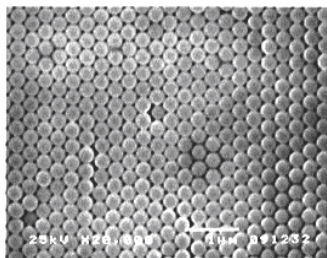


### 1. Preparation of Functional Polymeric Microspheres and Application to Electronic Paper

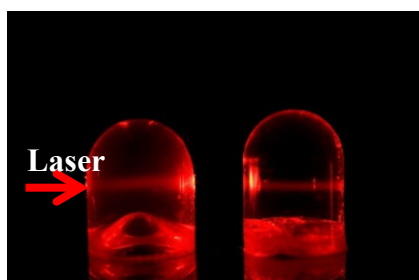


DAAB-VBC

SB5

SR49-VBC

### 2. Development of Transparent Organic-inorganic Optical Materials



**Content:** Our laboratory is conducting research on environment-friendly heterogeneous polymerization methods (micellar polymerization, emulsion polymerization, dispersion polymerization, mini-emulsion polymerization, etc.) using water as a medium (solvent). Polymer fine particles are widely used in fields such as low environmental load paints, adhesives, color materials, digital printing materials, copying toner, liquid crystal spacers, electronic materials, cosmetics, chromatographic fillers, medical diagnostic agents, and sustained release capsules. We are developing super water-resistant metallic paints, near infrared shielding particles, high refractive index particles, and color particles. In addition, the laboratory conducts research activities in a wide range of fields including macromomers, special structure polymers, living radical polymerization, stereo-controlled polymerization, organic/inorganic hybrid optical materials, and dilute solution physical properties of polylactic acid.

**Appealing point:** We have a track record of conducting many industry-academia collaborative research. Utilizing the knowledge, experience, and research results gained through many years of education and research activities, we can carry out technological development together with corporate engineers.

Yamagata University Graduate School of Organic Materials Science  
Research Interest : Polymer Synthesis & Physics

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