

Chiral and organic ferroelectric compound, BINOL2DMSO

Our manuscript on a chiral organic ferroelectric material, BINOL2DMSO has been accepted in J. Phys. Soc. Jpn. Preprint: <http://arxiv.org/abs/2204.01241>

The original purpose of this project was to grow chiral crystal in a magnetic field and to separate L- and D-crystals. Although this project was completely unsuccessful, the obtained crystals lead to a new finding, the chiral and organic ferroelectrics.

The photo is the crystals of BINOL2DMSO obtained in a few days. I am going to try nonreciprocity measurement in this system under pulsed magnetic fields. The strange shape of the hysteresis might also have some meanings.

