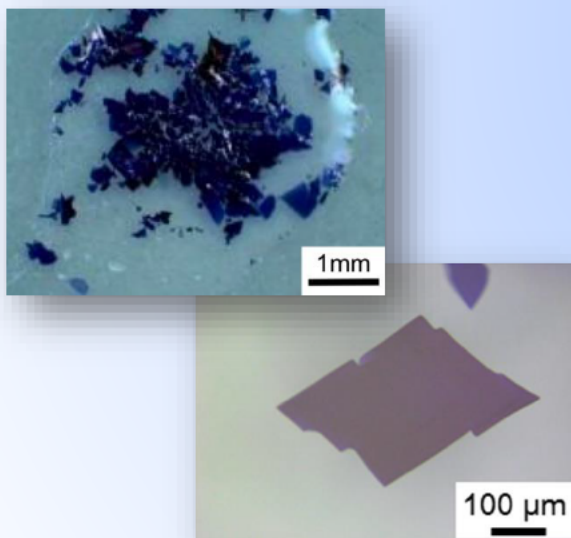


Single Crystal Growth of Organic Semiconductors in Vacuum

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Some organic compounds such as pentacene and fullerene exhibit a semiconducting conductivity. The single crystal of such organic semiconductors is usually obtained by a solution growth method, as is daily seen in the crystallization of “salt crystals” from a saturated saline solution.

In this program, students challenge to realize such a solution growth process in vacuum with ionic liquid which is stable in liquid even in vacuum, and then will experience one of the most advanced manufacturing, “mono-zukuri” processes based on Vac. Sci. & Tech. that is also fundamental for modern semiconductor processes.