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Japan Material Technologies Corporation enters licensing agreement with Osaka University for the polyacid catalyst/apatite powder

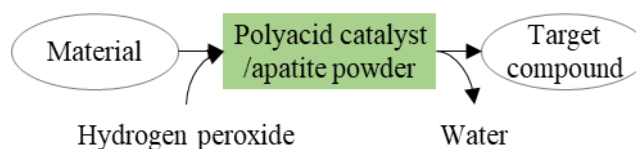
Japan Material Technologies Corporation (JMTC; Head office: Chuo-ku, Tokyo; CEO: Koyu Urata) has made an intellectual property licensing agreement with Osaka University for the polyacid catalyst/apatite powder.

This polyacid catalyst/apatite powder is the result of research carried out by invited lecturer Junko Ichihara and assistant professor Shunro Yamaguchi of Osaka University's Institute of Scientific and Industrial Research. It is permeated with organic compound and hydrogen peroxide solution, and may be applied as a powder without the need for organic solvents, in an environmentally friendly Green Chemistry process which produces only water as a waste product. Moreover, the process does not require halides and so is completely halogen-free.

< the polyacid catalyst /apatite powder >



< the powder oxidation reaction >



Through the powder oxidation reaction using the polyacid catalyst/apatite powder, it is possible to synthesize functional epoxy materials with a wide range of properties such as transparency and heat-resistance in high conversion rate and high purity (high specificity). Moreover, the technology has potential for many further applications to other oxidation reactions, including the synthesis of sophisticated organic materials such as N-oxides and sulfonated polymers, in a process which is halogen-free, but achieves high levels of purity.

JMTC is a startup company specializing in the field of materials chemistry. The company is focused on the use of licensing agreements and carve-outs to commercialize innovative technology developed mainly by Japanese corporations, as well as universities, research institutions, and other organizations. The company is committed to making a contribution towards the creation of innovation by promoting commercialization of unutilized technology that have been developed within universities.