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Mechanically plastic molecular crystals for shapeable optic waveguide

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Molecular crystals are usually brittle. This fragility poses challenges for their application. Recently, mechanical flexibility in crystalline materials has been discovered. These materials can be divided into being plastically (irreversibly) or elastically (reversibly) bendable. Here we report 4-bromo-6-[(6-chloropyridin-2-ylimino)methyl]phenol (CPMBP) as a plastically bendable crystal and promising candidate for future waveguide technologies.

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