

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Shear stress-induced mechanical deformation on $(00\bar{1})$ plane of crystal **1-Cl** by a pair of tweezers under polarized white light (PWL).

File Name: Supplementary Movie 2

Description: Shear stress-induced mechanical deformation on $(00\bar{1})$ plane of crystal **1-Cl** by a pair of tweezers under UV light (365 nm).

File Name: Supplementary Movie 3

Description: Preliminary investigation of light propagation on ferroelastically deformed 1-Cl crystal under micron-sized 405 nm laser light.

File Name: Supplementary Movie 4

Description: Shear stress-induced mechanical deformation on $(00\bar{1})$ plane of crystal **1-Cl** under PWL during force measurement.

File Name: Supplementary Movie 5

Description: Shear stress-induced mechanical deformation on $(00\bar{1})$ plane of crystal **1-Cl 2** under UV during force measurement.

File Name: Supplementary Movie 6

Description: Three-point stress-induced mechanical deformation on $(100/\bar{1}00)$ plane of crystal **1-Cl** under PWL till breaking point.

File Name: Supplementary Movie 7

Description: Three-point stress-induced mechanical deformation on $(100/\bar{1}00)$ plane of crystal **1-Cl** under PWL and UV.

File Name: Supplementary Movie 8

Description: A demonstration of a long crystal cut by a razor blade with an approximate angle of 45° .