



Original Article

Role of Weak Intermolecular Interaction in Plastic bending Behavior of Flufenamic Acid Polymorph

Basanta Saikia ^{*1}

¹Max Planck Institute for Dynamics of Complex Technical Systems, Magdeburg 39106, Germany

*Corresponding author email: bsaikia1@gmail.com

Abstract: In recent times, the study of flexible crystals gaining considerable attention from crystal engineers. In this work, the plastic bending of flufenamic acid polymorph has been identified, and the mechanism of plastic bending is explored. Plastic bending is correlated with the presence of a slip plane in the crystal lattice and of different intermolecular interactions present in the crystal using analyzed by Hirshfeld surfaces.

Keywords: Plastic bending; polymorph; Hirshfeld surfaces; Flufenamic acid