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A Review of physical and chemical properties of Glycine crystals family

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Abstract : The semi-organic material non-linear optical material has a wide scope of utilization in optical communication, information handling, and photonics. In this survey, a group of glycine complexes was investigated. These complexes display the property, for example, NLO, negative photoconductivity, and low dielectric loss make this material appropriate for optoelectronic gadget fabrications. Single crystals of semi-organic nonlinear optical material glycine family crystals have been synthesized by slow evaporation technique from aqueous solutions at room temperature. Thus, the grown single crystals were thoroughly characterized by various instrumental methods for the crystallinity and crystal structure, bonding, optical nature, thermal stability, microhardness, etc. Further, the powder second harmonic generation (SHG) efficiency was measured by Kurtz and Perry powder technique using Nd: YAG laser.

Key Words : semi-organic material; Glycine family, single crystals and SHG.

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