

A ferroelectric inorganic-organic hybrid based on NLO-phore stilbazolium.

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Streszczenie

A ferroelectric inorganic–organic hybrid based on *in situ* substituted stilbazolium cation (TAMS²⁺ = trimethylamino-N-methyl stilbazolium) has been obtained. Single-crystal X-ray structure analysis demonstrates that the NLO-phore organic component of the complex is embedded into the inorganic polymeric [Bi₂Cl₈]²⁻ framework and shows a polar arrangement with the cooperation of the nonsymmetric inorganic component. The measurement of ferroelectric and nonlinear optical properties show typical ferroelectricity and second harmonic generation (SHG) responses as well as a significant improvement of the laser damage threshold and thermal stability of relative organic material.

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