2021化學會年會摘要範例說明

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High-temperature, high-pressure hydrothermal synthesis, crystal structure, and infrared and NMR spectroscopy of a barium lead borate

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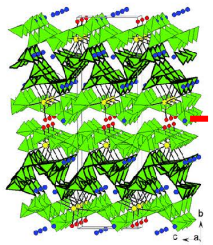
With a high-temperature, high-pressure hydrothermal technique, a new barium lead borate, $[Ba_3Pb(H_2O)][B_{11}O_{19}(OH)_3]$ (**1**), has been synthesized and characterized by single-crystal X-ray diffraction, and infrared and solid-state NMR spectroscopy.[1] The structure of **1** contains planar thick layers of borates with the Ba^{2+} cations at sites in the inter- and intralayer space.[2]



Structure of **1**

References

[1]. (a) Jen, I.-H.; Lee, Y.-C.; Tsai, C.-E.; Lii, K.-H.* *Inorg. Chem.* **2019**, *58*, 4085. (b)

[2]. Keszler, D. A. Borates: Solid State Chemistry. In *Encyclopedia of Inorganic Chemistry*; King, R. B., Ed.; John Wiley & Sons: Chichester, 1994, Vol. 1, pp 18–327.

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