

Supporting information

Review of the $A^I_2B^{II}C^{IV}D^{VI}_4$ Family as Infrared Nonlinear Optical Materials: The Effect of Each Site on the Structure and Optical Properties

Guangmao Li,^a Zhihua Yang^{a,b}, Junjie Li^{*a,b} and Shilie Pan^{*a,b}

*†Key Laboratory of Functional Materials and Devices for Special Environments,
Xinjiang Technical Institute of Physics & Chemistry, CAS; Xinjiang Key Laboratory
of Electronic Information Materials and Devices; 40-1 South Beijing Road, Urumqi
830011, China*

To whom correspondence should be addressed:

E-mail: lijunjie@ms.xjb.ac.cn and slpan@ms.xjb.ac.cn

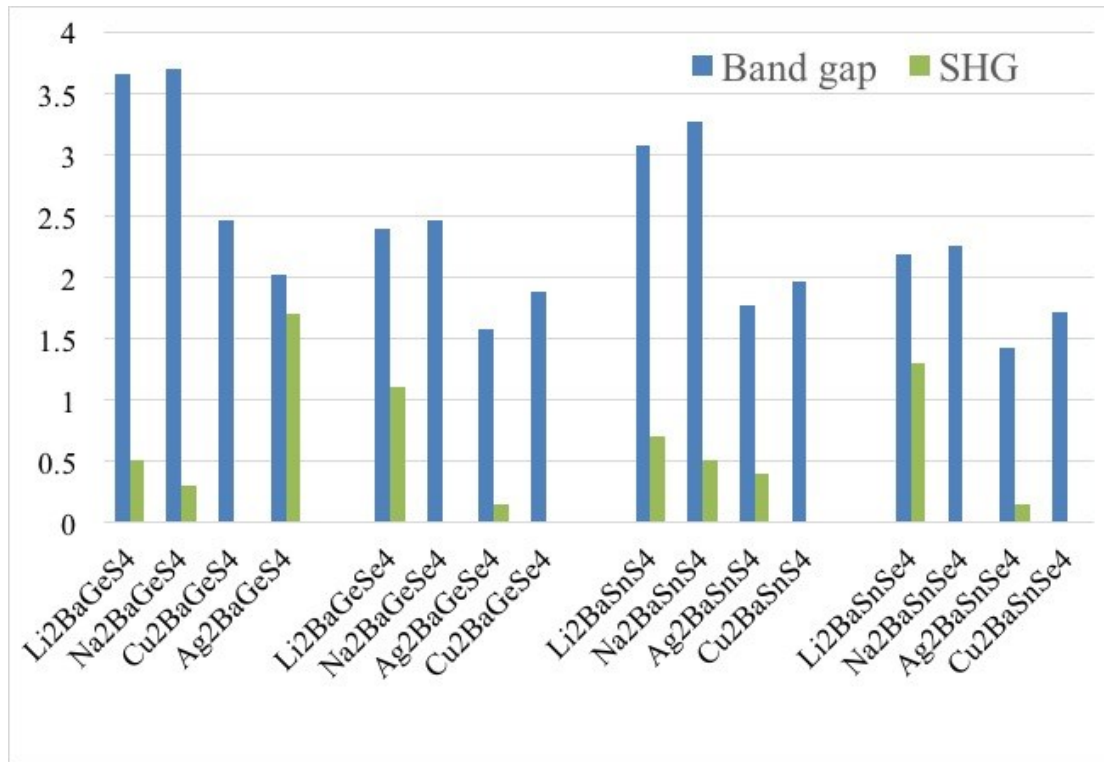


Figure S1. Histogram of properties (band gap and SHG response) comparisons among A_2BaGeS_4 , $A_2BaGeSe_4$, A_2BaSnS_4 , and $A_2BaSnSe_4$ ($A = Li, Na, Cu, Ag$).

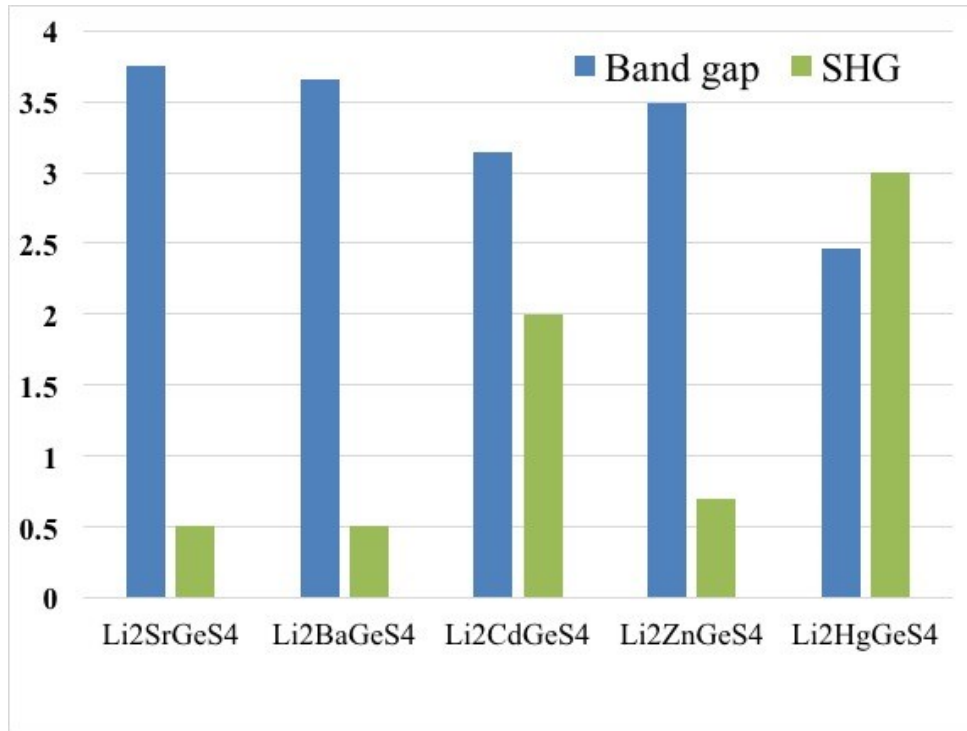


Figure S2. Histogram of properties (band gap and SHG response) comparisons among

Li₂B^{II}GeS₄ (B = Sr, Ba, Zn, Cd, Hg).

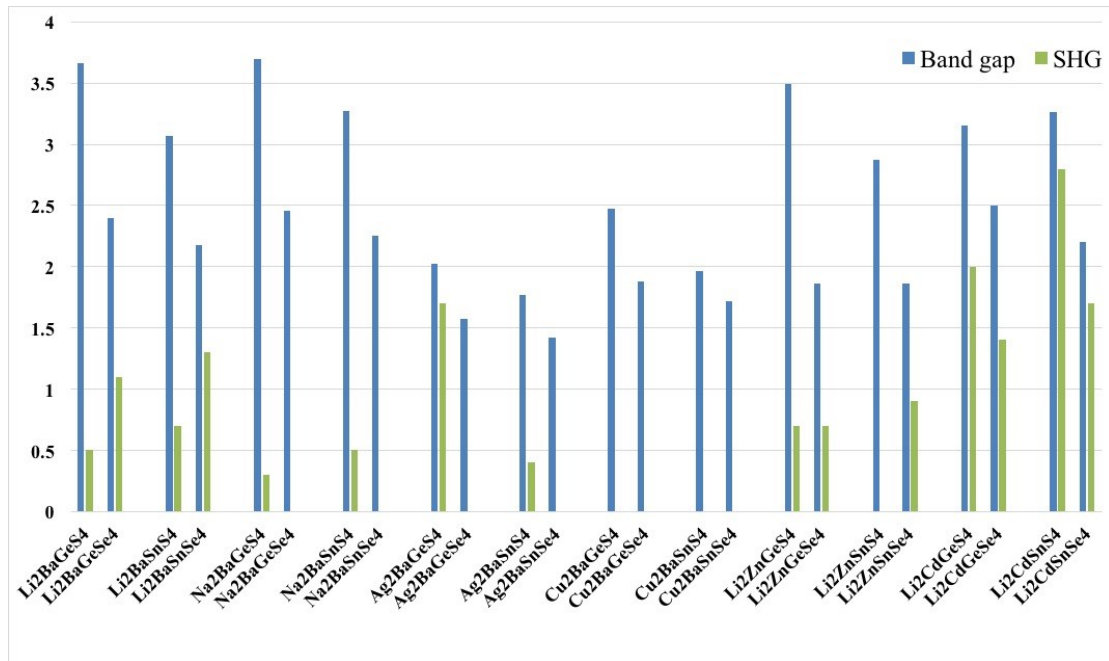


Figure S3. Histogram of properties (band gap and SHG response) comparisons among sulfides and relative selenides.