

Name of Presenter

Shiori Nawa

Affiliation

The University of Osaka

**Presentation No. : 1-P-13****Comparison of structural and mechanical properties of whitlockite ceramics fabricated via conventional and cold sintering process**

☆Shiori Nawa¹, Yeongjun Seo¹, Yoshifumi Kondo¹, Sung Hun Cho¹, Jonas Stadulis², Aleksej Zarkov², Tomoyo Goto^{1,3}, *Tohru Sekino¹

¹The University of Osaka, 8-1 Mihogaoka, Ibaraki, Osaka 567-0047, Japan, ²Vilnius University, ³Nara Institute of Science and Technology

*sekino@sanken.osaka-u.ac.jp

Keywords: Cold sintering process, Calcium phosphate, Whitlockite, Mechanical properties, Mineralization

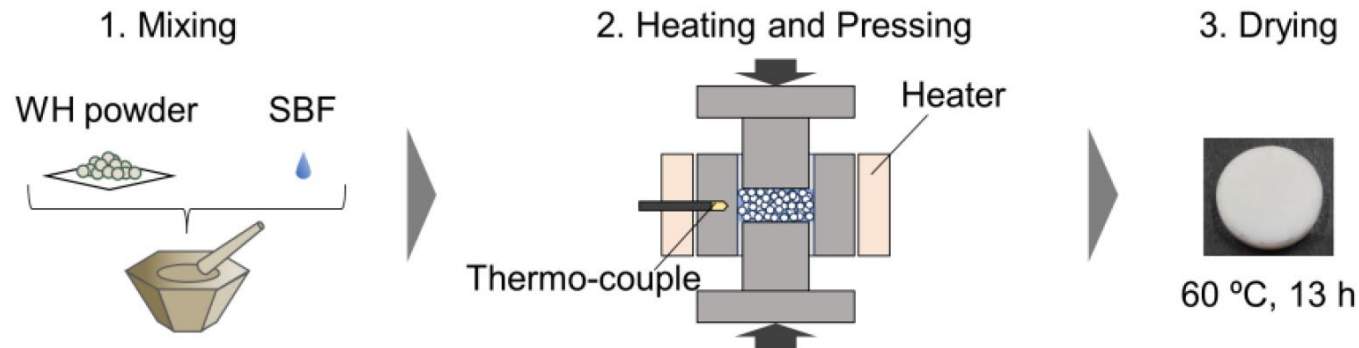
Highlights of This Poster Presentation

Fig. 2. LMSP procedure.

Conclusions

We successfully fabricated high-density single-phase WH bulk sintered bodies using LMSP and clarified their crystal structure, microstructure, and mechanical properties. The fundamental properties of WH and the low-temperature sintering method in this study are expected to contribute to its potential applications as a biomaterial.