

Accepted Manuscript

Title: *In situ* biomineralization by silkworm feeding with ion precursors for the improved mechanical properties of silk fiber

Authors: Zhenhu Guo, Wensheng Xie, Qin Gao, Dan Wang, Fei Gao, Shengrong Li, Lingyun Zhao



PII: S0141-8130(17)33357-3
DOI: <https://doi.org/10.1016/j.ijbiomac.2017.12.029>
Reference: BIOMAC 8690

To appear in: *International Journal of Biological Macromolecules*

Received date: 15-11-2017
Revised date: 4-12-2017
Accepted date: 5-12-2017

Please cite this article as: Zhenhu Guo, Wensheng Xie, Qin Gao, Dan Wang, Fei Gao, Shengrong Li, Lingyun Zhao, *In situ* biomineralization by silkworm feeding with ion precursors for the improved mechanical properties of silk fiber, *International Journal of Biological Macromolecules* <https://doi.org/10.1016/j.ijbiomac.2017.12.029>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

***In situ* biomineralization by silkworm feeding with ion precursors for
the improved mechanical properties of silk fiber**

Zhenhu Guo^{a,b,c}, Wensheng Xie^{a,b}, Qin Gao^{a,b}, Dan Wang^{a,b}, Fei Gao^{a,b}, Shengrong
Li^{c,*}, Lingyun Zhao^{a,b,*}

^a Key Laboratory of Advanced Materials, Ministry of Education of China, School of
Materials Science and Engineering, Tsinghua University, Beijing 100084, China

^b State Key Laboratory of New Ceramics and Fine Processing, School of Materials
Science and Engineering, Tsinghua University, Beijing 100084, China

^c School of Earth Science and Resources, China University of Geosciences, Beijing
100083, China

* Corresponding authors. Tel: 010-62772325; fax: 010-62772325

E-mail address: lizr@cugb.edu.cn (SR. Li)

E-mail address: lyzhao@mail.tsinghua.edu.cn (LY. Zhao)

Download English Version:

<https://daneshyari.com/en/article/8328124>

Download Persian Version:

<https://daneshyari.com/article/8328124>

[Daneshyari.com](https://daneshyari.com)