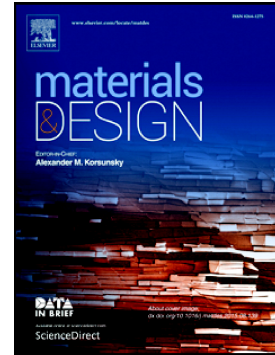


Accepted Manuscript

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PII: S0264-1275(18)30544-6
DOI: doi:[10.1016/j.matdes.2018.07.013](https://doi.org/10.1016/j.matdes.2018.07.013)
Reference: JMADE 4046
To appear in: *Materials & Design*
Received date: 4 April 2018
Revised date: 5 July 2018
Accepted date: 6 July 2018

Please cite this article as: Zhi Wang, Chunlin Chen, Sergey V. Ketov, Kazuto Akagi, Andrey A. Tsarkov, Yuichi Ikuhara, Dmitri V. Louzguine-Luzgin , Local chemical ordering within the incubation period as a trigger for nanocrystallization of a highly supercooled Ti-based liquid. *Jmade* (2018), doi:[10.1016/j.matdes.2018.07.013](https://doi.org/10.1016/j.matdes.2018.07.013)

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**Local chemical ordering within the incubation period as a trigger for nanocrystallization
of a highly supercooled Ti-based liquid**

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Keywords: metallic glass; nanocrystallization; nucleation; early stage

Abstract

In the present work we study nanocrystallization of the $\text{Ti}_{50}\text{Ni}_{23}\text{Cu}_{22}\text{Sn}_5$ alloy within the supercooled liquid region by using a state-of-the-art experimental technique with elemental mapping at near-atomic resolution especially focusing on the incubation period which is still poorly understood from both the theoretical and experimental viewpoint. Molecular dynamics

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