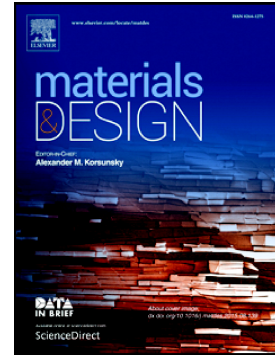


Accepted Manuscript

Radiation-induced extreme elastic and inelastic interactions in concentrated solid solutions

Ritesh Sachan, Mohammad W. Ullah, Matthew F. Chisholm, Jie Liu, Pengfei Zhai, Daniel Schauries, Patrick Kluth, Christina Trautman, Hongbin Bei, William J. Weber, Yanwen Zhang



PII: S0264-1275(18)30281-8
DOI: doi:[10.1016/j.matdes.2018.04.011](https://doi.org/10.1016/j.matdes.2018.04.011)
Reference: JMADE 3824
To appear in: *Materials & Design*
Received date: 18 January 2018
Revised date: 30 March 2018
Accepted date: 8 April 2018

Please cite this article as: Ritesh Sachan, Mohammad W. Ullah, Matthew F. Chisholm, Jie Liu, Pengfei Zhai, Daniel Schauries, Patrick Kluth, Christina Trautman, Hongbin Bei, William J. Weber, Yanwen Zhang , Radiation-induced extreme elastic and inelastic interactions in concentrated solid solutions. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Jmade*(2017), doi:[10.1016/j.matdes.2018.04.011](https://doi.org/10.1016/j.matdes.2018.04.011)

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.

Radiation-induced extreme elastic and inelastic interactions in concentrated solid solutions

Ritesh Sachan^{1,*}, Mohammad W. Ullah¹, Matthew F. Chisholm¹, Jie Liu², Pengfei Zhai², Daniel Schauries³, Patrick Kluth³, Christina Trautman^{4,5}, Hongbin Bei¹, William J. Weber^{6,1}, and Yanwen Zhang^{1,6,*}

¹Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831, USA

²Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China

³Department of Electronic Materials Engineering Research School of Physics and Engineering, Australian National University Canberra, ACT 2601 Australia

⁴GSI Helmholtzzentrum für Schwerionenforschung GmbH, Planckstrasse 1, Darmstadt 64291, Germany

⁵Materialwissenschaft, Technische Universität Darmstadt, Darmstadt 64287, Germany

⁶Department of Materials Science and Engineering, University of Tennessee, Knoxville, TN 37996, USA

* Corresponding authors

email: sachan.ritesh@gmail.com, zhangy1@ornl.gov

This manuscript has been authored by UT-Battelle, LLC under Contract No. DE-AC05-00OR22725 with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the article for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for United States Government purposes. The Department of Energy will provide public access to these results of federally sponsored research in accordance with the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

Download English Version:

<https://daneshyari.com/en/article/7217025>

Download Persian Version:

<https://daneshyari.com/article/7217025>

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