

Understanding Nuclear Fuel Forms and Structures

MRS Advances Volume 6, Issue 47-48

Held Various Dates and Locations

ISBN: 978-1-7138-6674-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by Springer Nature
All rights reserved.

Printed with permission by Curran Associates, Inc. (2023)

For permission requests, please contact Springer Nature
at the address below.

Springer Nature
The Campus 4 Crinan St.
London N1 9XW
United Kingdom

www.springernature.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Understanding Nuclear Fuel Forms and Structures.....	1019
<i>David Frazer, Peter Hosemann, Erich Stergar</i>	
EPMA-Based Mass Balance Method for Quantitative Fission Product Distribution Comparison Between TRISO Particles.....	1020
<i>Karen E. Wright, John D. Stempien, Isabella J. van Rooyen</i>	
Iodine Release from High-Burnup Fuel Structures: Separate-Effect Tests and Simulated Fuel Pellets for Better Understanding of Iodine Behaviour in Nuclear Fuels	1026
<i>Janne Heikinheimo, Teemu Kärkelä, Unto Tapper</i>	
Proton Irradiation-Induced Blistering in UO ₂	1032
<i>Janne Pakarinen, Lingfeng He, Todd R. Allen</i>	
Phase Identification and Morphology in Rolled and Annealed U-22.5at.%Zr Foils	1037
<i>Walter J. Williams, Tiankai Yao, Maria A. Okuniewski</i>	
Seeing Through Nuclear Fuel: Three-Dimensional, Nondestructive X-Ray Microscopy and Volumetric Analyses of Neutron-Irradiated TRISO-Coated Fuel Kernels.....	1043
<i>Nikolaus L. Cordes, William C. Chuirazzi, John D. Stempien</i>	
Nano-Mechanical Property Assessment of a Neutron-Irradiated HT-9 Steel Cladding and a Fuel- Cladding Chemical Interaction Region of a Uranium–10 wt% Zirconium Nuclear Fuel.....	1048
<i>Jonova Thomas, Fei Teng, Maria A. Okuniewski</i>	

Author Index