

JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research

Vol. 101, No. 3, March 2025

Lecture Note

Changes in Material Properties and Hydrogen Isotope Behavior of Tungsten under Neutron Irradiation

3. Hydrogen Isotope Retention and Permeation Behavior in Neutron-Irradiated Tungsten

and Tungsten Alloys NOBUTA Yuji and OYA Yasuhisa 83

Lecture Note

Transmission Electron Microscope Techniques in Research on Fusion Reactor Materials

3. TEM Observation of He Bubble MIYAMOTO Mitsutaka 91

4. Research on Ceramic Coating Materials Utilizing TEM CHIKADA Takumi 96

Projectreview

International Collaborative Research under the IEA PWI TCP

..... MASUZAKI Suguru, SUGIMOTO Yutaka, HAYASHI Yuki, YAJIMA Miyuki,

HAMAJI Yukinori, TOGO Satoshi, OHNO Noriyasu, TANAKA Hirohiko,

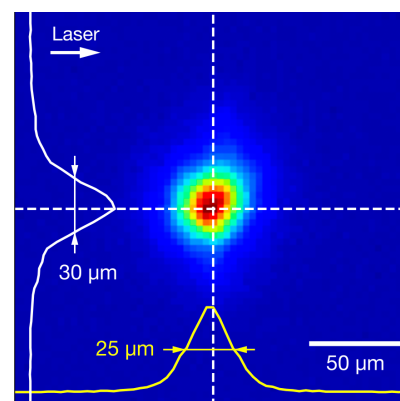
YOSIKAWA Masashi, KAJITA Shin, KAWAMURA Gakushi, SHOJI Mamoru,

MIYAMOTO Mitsutaka, SAKAMOTO Ryuichi and LEE Heun Tae 100

PFR List 127

Information 128

Announcement 141



Cover

Water-window extreme ultraviolet (EUV) source image. We produced a Bi plasma by sub-nanosecond laser pulse at a wavelength of 1064 nm using a regenerative liquid target with a diameter of 30 microns in a vacuum. The present source size was observed to be 30 microns (FWHM) (vertical) and 25 microns (FWHM) (horizontal) by the EUV pinhole camera. The source image was time-integrated in the exposure time of 1 s.

(Tatsuya SORAMOTO *et al.*, Plasma and Fusion Research, Vol. 20, 2406013 (2025) <https://www.jspf.or.jp/>)

Published Monthly by

The Japan Society of Plasma Science and Nuclear Fusion Research

3-1-1 Uchiyama, Chikusa-ku, Nagoya 464-0075, Japan

Tel (052)735-3185, Fax (052)735-3485, E-mail: plasma@jsof.or.jp, URL: <https://www.jspf.or.jp/>