

JOURNAL OF PLASMA AND FUSION RESEARCH

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

Vol. 96, No. 12, December 2020

Commentary

Plasma Sputtering Using Liquid Metal Target MOTOMURA Taisei and TABARU Tatsuo 695

Special Topic Articles

- The Physics on Electron/Ion Acceleration by Controlling Density of Plasma
on Target Surface and Controlling Technique of Laser Pulse Contrast
1. Introduction ARIKAWA Yasunobu 701
 2. Pre-Plasma Formation and its Effects on Intense Laser-Plasma Interaction
..... IWATA Natsumi and SENTOKU Yasuhiko 703
 3. Ion Acceleration from μm -Thick Targets YOGO Akifumi 706
 4. Improvement on Electron Generation Efficiency by Using Double Pulse Method
-Applications for Neutron Generation- ARIKAWA Yasunobu 710

Lecture Note

- Probe Measurement Methods for Study of Electric Propulsion
3. Spectroscopic Measurements for Electric Thruster TSUKIZAKI Ryudo and YAMASHITA Yusuke 714

PFR Abstracts 722

Information 724

Announcement 727

Vol. 96 Contents 728

Cover

A schematic view of the TOKASTAR-2 device. It is a tokamak-stellarator hybrid device that contains seven types of magnetic field coils. It has local helical coils composed of two outer parallelogram-shaped ones (HF coils) and upper and lower fan-shaped ones (AHF coils). One of the main objectives is stabilization of the plasma position by applying the helical field on the tokamak plasma. Recent study is focused on the stabilization effects on the vertical position in the elongated tokamak plasma. (Kouhei YASUDA *et al.*, Plasma and Fusion Research, Vol. 15, 1402083 (2020) <http://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: <http://www.jspf.or.jp/>