

## **Development of Cost-efficient and Ultra-light CIGS Solar Cell for Space Applications** Hiroshi Tomita\*, Takato Ishiuchi, and Takuya Kato Idemitsu Kosan Co.Ltd., 1280 Kami-izumi, Sodegaura, Chiba, 299-0293, Japan

## Abstract

exhibited 16% (AM0) efficiency and high tolerance properties for protons and electrons. Also, ultra-light CIGS solar cells exhibited recovery from radiative damage by post light-soaking.

## About CIGS Solar Cell

![](_page_0_Picture_7.jpeg)

![](_page_0_Picture_8.jpeg)

![](_page_0_Figure_13.jpeg)

![](_page_0_Figure_14.jpeg)

and 3J-GaAs solar cells, that will reduce launching cost.

![](_page_0_Figure_17.jpeg)

1) National Renewable Energy Laboratory, "Best Research-Cell Efficiency Chart.", 2024, available at website of NREL References 2) M.Imaizumi et al., Prog. Photovolt: Res. Appl., 2005; 13: 529–543. 3) S.Kawakita et al., Trans. JSASS Space Tech., 2009; 7: 26, Ph49-53.