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Special Topic Article

Plasma Technology for Next Generation Crystalline Silicon Solar Cells

1. Introduction	MASUDA Atsushi	809
2. Overview and Future Outlook on Global Demand of Solar Cell Modules	KOMATSU Yuji	811
3. Surface Passivation Films for Crystalline Silicon Solar Cells	MIYAJIMA Shinsuke	820
4. Reformation of Production Line for Crystalline Silicon Solar Cells	UENO Tsuyoshi	825
5. High-Efficiency Polycrystalline Silicon Photovoltaic Cell with Low-Reflectivity Microscopic Texture	MATSUNO Shigeru	829

Lecture Note

Plasma Turbulence Analysis from the View Point of Fluid Turbulence

6. Conclusion	OHNO Noriyasu	834
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PFR Abstracts		836
----------------------------	--	-----

Information		837
--------------------------	--	-----

Plasma & Fusion Calendar		848
---	--	-----

Announcement		848
---------------------------	--	-----

Vol.85 Contents		852
------------------------------	--	-----

Cover

The soft x-ray image of high-beta plasma confined in the magnetospheric device RT-1. (solid line) Superconducting magnet, (dotted line) x-ray CCD camera scope, and (chain lines) ECR layers of (1) 2.45 and (2) 8.2 GHz microwaves. When the magnet is supported, primary loss channel of hot electrons is coil support structure. Levitating the magnet, the plasma pressure is drastically increased; the local beta exceeds 40% and the energy confinement time is longer than 0.1 s. (Haruhiko SAITOH *et al.*, Plasma and Fusion Research Vol.4, 050 (2009) <http://www.jspf.or.jp/PFR/>)



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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/>