

Preface

12th Japan-China Symposium on Materials for Advanced Energy Systems and Fission & Fusion Engineering (JCS-12)

The 12th Japan-China Symposium on Materials for Advanced Energy Systems and Fission & Fusion Engineering (JCS-12) was held at Azarea, Shizuoka, Japan during September 17–20, 2014. The series of the Symposium has been held in most cases every two years in Japan and China alternately. Initiated in Hefei, China in 1993, the symposium has become an important forum for scientists, young staff and students of the two countries to exchange new information about materials and related technologies for advanced fission & fusion systems.

The topics of the symposium includes:

- A. Reactor System & Design
- B. Blanket & First Wall Technology
- C. Fission Materials & Fuels
- D. Fusion Materials
- E. Radiation Effects
- F. Simulation, Data Base & Modeling
- G. ITER related issues

The statistics of participants for JCS-12 are summarized as follows:

Japan	67	(24)	(): for students
China	29	(4)	
Korea	2		
Russia	1		
USA	1		
Total participants	100		
Total student participants	28		

In the symposium, 78 oral presentations were carried out including 8 plenary and 13 key-note talks. Young researcher award was given to 16 participants who were under 35 years old.

In this proceedings, 25 papers resulting from the symposium presentations were collected. They were subjected to at least two independent reviews by Japanese and Chinese reviewers.

JCS-13 is being planned to be held in Hefei, China in 2016, with Professor Q. Huang as the Chairman. We look forward to seeing you in Hefei.

Guest Editors of JCS-12 Proceeding in JPFR-SERIES:
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M. Matsuyama, S. Ohnuki, Q. Huang,
Y. Oya (Secretariat), T. Nishitani (Editor of JPFR-SERIES)