Myagmarjav Odtsetseg

Position/Department/Division/Institution/Organization

Researcher (Dr. Eng.)/ IS Process Experiment Group/ HTGR Research and Development Center/ Japan Atomic Energy Agency

Country

Japan

Career history

Dr. Myagmarjav Odtsetseg is a researcher at Japan Atomic Energy Agency. She received M. Eng. and Dr. Eng. degrees from the Tokyo Institute of Technology, Japan, both in Nuclear Engineering in 2012 and 2015. Dr. Myagmarjav Odtsetseg began her career as a postdoctoral fellow in Japan Atomic Energy Agency in 2015, where she specialized in nuclear hydrogen production by the thermochemical cycles and membrane reactor technology. Since 2017, she has been working as a full-time researcher at same institution. In 2019, at debriefing session of the 14th annual JAEA forum, she was selected as one of three outstanding young researchers and made a presentation entitled in “Development of a high performance H2-separation membrane to improve thermal efficiency of IS process”. She has extensively involved in hydrogen production technology by high temperature gas-cooled reactor and the process efficiency improvement by hydrogen separation technology. As part of her activity, she serves as one of the Japanese delegates for the GEN IV Very High Temperature Reactor Hydrogen Production Project Management Board.

Awards/Publications

Dr. Myagmarjav Odtsetseg has published more than 20 papers in peer-reviewed journals and international conference proceedings. Her recent publications on hydrogen production using high-temperature gas-cooled reactor and the process efficiency improvement using a membrane separation techniques etc. are listed as follows:

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy*, 46, 28435-49, **2021.**

O. Myagmarjav *et al*, *Progress in Nuclear Energy*, 137, 103772-8, **2021.**

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy*, 44, 30832-39, **2019.**

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy*, 44, 19141-52, **2019.**

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy*, 44, 10207-17, **2019.**

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy*, 42, 29091-100, **2017**.

O. Myagmarjav *et al*, *International Journal of Hydrogen Energy* 42, 6012-23, **2017**.

In addition, she delivered keynote talks in the international conferences as follows:

(***Invited talk #1***) O. Myagmarjav *et al.*, Research and Development on Membrane IS Process for Hydrogen Production using Solar Heat, *the 7th World Hydrogen Technology Convention (WHTC2017)*, Prague, Czech Republic, Jul. 9-12, 2017.

(***Invited talk #2***) O. Myagmarjav *et al.*, R&D Status of Heat Utilization Technologies for High-Temperature Gas-cooled Reactor and Solar Energy, *International conference of Laser Solutions for Space and the Earth 2018 (LSSE2018)*, Yokahama, Japan, Apr. 23-27, 2018.

Areas of expertise

Nuclear engineering, energy efficiency assessment, hydrogen production technology using high-temperature gas-cooled reactors, thermochemical water-splitting processes, and modelling of membrane reactor performance and separation process.