

Shirato Yasuhito

Position/Department/Division/Institution/Organization

Director, Climate Change research, Institute for Agro-Environmental Sciences, National Agriculture and Food Research Organization (NARO)

Country

Japan

Career history

April 1995-September 1995: Researcher, Division of Research Planning, National Grassland Research Institute,

October 1995-March 2001: Researcher, Division of Soil Science, National Institute of Agro-Environmental Sciences,

April 2001-September 2005: Senior Researcher, Department of Global Resources, National Institute for Agro-Environmental Sciences,

October 2005-December 2007: Research Officer, Ministry of Agriculture, Forestry and Fisheries,

January 2008- March 2010: Senior Researcher, Natural Resources Inventory Center, National Institute for Agro-Environmental Sciences,

April 2010- March 2016: Leader, Research Project for Mitigation of Global Warming, National Institute for Agro-Environmental Sciences,

April 2016- March 2018: Head, Soil Biogeochemistry and Modeling Unit, National Agriculture and Food Research Organization, Institute for Agro-Environmental Sciences

April 2018 – Present: Current position

Awards/Publications

Awards:

Prize of Japanese Society of Soil Science and Plant Nutrition, 2018

Outstanding Young Scientist, Japanese Society of Soil Science and Plant Nutrition, 2006

Best paper Award of Journal, Soil Science and Plant Nutrition, 2005

Publication: (recent five years)

Yasuhito Shirato (2020) Use of models to evaluate carbon sequestration in agricultural soils, Soil Science and Plant Nutrition, 66, 21-27

Cornelia Rumpel, Farshad Amiraslani, Claire Chenu, Magali Garcia Cardenas, Martin Kaonga, Lydie-Stella Koutika, Jagdish Ladha, Beata Madari, Yasuhito Shirato, Peter Smith, Brahim

- Soudi, Jean-Francois Soussana, David Whitehead, Eva Wollenberg (2019) The 4p1000 initiative: opportunities, limitations and challenges for implementing soil organic carbon sequestration as a sustainable development strategy, *Ambio*, doi. 10.1007/s13280-019-01165-2
- Yasuhito Shirato and Akira Hasebe (Editors) (2019) *Climate Smart Agriculture for the Small-Scale Farmers in the Asian and Pacific Region*, National Agriculture and Food Research Organization (NARO) and Food and Fertilizer Technology Center (FFTC) for the Asian and Pacific Region, 347 pp.
- Kajiura, M., Minamikawa, K., Tokida, T., Shirato, Y. and Wagai, R. (2018) Methane and nitrous oxide emissions from paddy fields in Japan: An assessment of controlling factor using an intensive regional data set, *Agriculture, Ecosystems and Environment*, 252, 51-60
- Katayanagi, N., Fumoto, T., Hayano, M., Shirato, Y., Takata, Y., Leon, A., Yagi, K. (2017) Estimation of total CH₄ emission from Japanese rice paddies using a new estimation method based on the DNDC-Rice simulation model, *The Science of the total environment*, 601-602, 346-355
- Mishima, S, A. Leon, S. Eguchi, Y. Shirato (2017) Livestock waste, potential manure production and its use in Japan in 1980 and 2010, *Compost Science & Utilization* 25 S43 - S52
- M.A. Liebig, A.J. Franzluebbers, C. Alvarez, T.D. Chiesa, N. Lewczuk, G. Piñeiro, G. Posse, L. Yahdjian, P. Grace, O. Machado Rodrigues Cabral, L. Martin-Neto, R. de Aragão Ribeiro Rodrigues, B. Amiro, D. Angers, X. Hao, M. Oelbermann, M. Tenuta, L.J. Munkholm, K. Regina, P. Cellier, F. Ehrhardt, G. Richard, R. Dechow, F. Agus, N. Widiarta, J. Spink, A. Berti, C. Grignani, M. Mazzoncini, R. Orsini, P.P. Roggero, G. Seddaiu, F. Tei, D. Ventrella, G. Vitali, A. Kishimoto-Mo, Y. Shirato, S. Sudo, J. Shin, L. Schipper, R. Savé, J. Leifeld, L. Spadavecchia, J. Yeluripati, S. Del Grosso, C. Rice & J. Sawchik (2016) MAGGnet: An international network to foster mitigation of agricultural greenhouse gases, *Carbon Management*, DOI: 10.1080/17583004.2016.1180586.
- Katayanagi, N., Fumoto, T., Hayano, M., Takata, Y., Kuwagata, T., Shirato, Y., Sawano, S., Kajiura, M., Sudo, S., Ishigooka, Y. and Yagi, K. (2016) Development of a method for estimating total CH₄ emission from rice paddies in Japan using the DNDC-Rice model, *Science of The Total Environment*, 547, 429-440

Areas of expertise

Soil science