

CURRICULUM VITAE

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Name: Yoshifumi Saito

Date of Birth: 20 March 1967

Education:

B. Sci. Kyoto University 1989

Ms. Sci. Kyoto University 1991

Degree of Doctor, Science: University of Tokyo 1995

Professional Career:

Research Associate, ISAS: 1992-1997

Associate Professor, ISAS: 1997-

Societies:

The Society of Geomagnetism and Earth, Planetary and Space Sciences

The Japanese Society of Planetary Sciences

American Geophysical Union

Asia Oceania Geophysical Society

<Research Activities>

My research activities have been related to rocket and satellite experiments for study of space plasmas in the ionosphere and magnetosphere. I have been participated in developments of the space-borne instruments for hot plasma and low-energy particle measurements. Based on the obtained data by the rocket and satellite experiments I have studied elementary processes for transport and acceleration of charged particles in the space plasmas and the global electrodynamics of the magnetospheric plasmas. Following is a list of the rocket and satellite experiment in which I participate(d).

a) Sounding Rocket experiments

1989

S-520-12 : Co-I of LEP (Low Energy Particle experiment)

1997

SS520-1 : PI of ENA (Energetic Neutral Atoms experiment)

2000

SS520-2 : PI of LEP (Low Energy Particle experiment)

2008

ICI-2 : PI of LEP (Low Energy Particle experiment)

2011

ICI-3 : PI of LEP (Low Energy Particle experiment)

b) Satellite experiments

1989-

GEOTAIL: Magnetotail plasmas, magnetosheath, and solar wind

Co-I of LEP (Low Energy Particle experiment)

1995-2003

Nozomi (PLANET-B): Structure and dynamics of the Martian upper atmosphere

Co-I of PSA (Plasma Spectrum Analyzer)

1998-

Kaguya (SELENE): Interaction between solar wind and Lunar surface, Lunar Atmosphere

PI of PACE (Plasma energy Angle and Composition Experiment)

2004-

BepiColombo/MMO: Mercury Plasma/Particle environment

PI of MPPE (Mercury Plasma Particle Experiment)

2006-

MMS: Electron scale phenomena in the Earth's magnetosphere

Co-I of FPI-DIS

c) Recent Publications

Saito Y., S. Yokota, K. Asamura, T. Tanaka, M. N. Nishino, T. Yamamoto, Y. Terakawa, M. Fujimoto, H. Hasegawa, H. Hayakawa, M. Hirahara, M. Hoshino, S. Machida, T. Mukai, T. Nagai, T. Nagatsuma, T. Nakagawa, M. Nakamura, K. Oyama, E. Sagawa, S. Sasaki, K. Seki, I. Shinohara, T. Terasawa, H. Tsunakawa, H. Shibuya, M. Matsushima, H. Shimizu, F. Takahashi, In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SELENE (Kaguya), Space Sci. Rev., 154, 1-4, 265-303, 2010, doi:[10.1007/s11214-010-9647-x](https://doi.org/10.1007/s11214-010-9647-x)

Saito Y., J.A. Sauvaud, M. Hirahara, S. Barabash, D. Delcourt, T. Takashima, K. Asamura and BepiColombo MMO/MPPE Team, Scientific objectives and instrumentation of Mercury Plasma Particle Experiment (MPPE) onboard MMO, Planetary and Space Science, Volume 58, Issues 1-2, January 2010, Pages 182-200

Saito Y., S. Sasaki, M. Fujimoto, K. Maezawa, I. Shinohara, Y. Tsuda, and H. Kojima, High time resolution electron measurement by Fast Electron energy Spectrum Analyzer (FESA), AIP Conf. Proc. 1144, 53 (2009), DOI:10.1063/1.3169304

Saito, Y., S. Yokota, T. Tanaka, K. Asamura, M. N. Nishino, M. Fujimoto, H. Tsunakawa, H. Shibuya, M. Matsushima, H. Shimizu, F. Takahashi, T. Mukai, and T. Terasawa (2008), Solar wind proton reflection at the lunar surface: Low energy ion measurement by MAP-PACE onboard SELENE (KAGUYA), Geophys. Res. Lett., 35, L24205, doi:10.1029/2008GL036077.

Saito Y., S. Yokota, K. Asamura, T. Tanaka, R. Akiba, M. Fujimoto, H. Hasegawa, H. Hayakawa, M. Hirahara, M. Hoshino, S. Machida, T. Mukai, T. Nagai, T. Nagatsuma, M. Nakamura, K. Oyama, E. Sagawa, S. Sasaki, K. Seki, T. Terasawa, Low energy charged particle measurement by MAP-PACE onboard SELENE, Earth Planets and Space, 60, 4, 375-386, 2008