



Kanako SEKI

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CURRENT AND FORMER POSITIONS

2015 – Present	Professor – Graduate School of Science, University of Tokyo
2002 – 2015	Associate Professor – STEL/ISEE, Nagoya University
2000 – 2002	JSPS (Japan Society for the Promotion of Science) Research Fellow
1999	Graduate Research Assistant – Los Alamos National Laboratory

EDUCATION

2000 Ph.D.	Graduate School of Science, University of Tokyo
1997 M.A.	Graduate School of Science, University of Tokyo
1995 B.A.	Graduate School of Science, University of Tokyo

SELECTED HONORS AND AWARDS:

2022	Inoue Prize for Science
2016 and 2018	NASA Group Achievement Award (MAVEN)
2011	Young Scientists' Prize, Commendation for Science and Technology by the Japanese Minister of Education, Culture, Sports, Science and Technology
2001	Fred L. Scarf Award - AGU SPA Section
2001	Obayashi Shorei Award – SGEPPS

SELECTED SERVICES IN NATIONAL AND/OR INTERNATIONAL COMMITTEES:

2023.6 – Present	Chair of the Space Science Committee of ISAS, JAXA
2023.6 – Present	Member of the Space Engineering Committee of ISAS, JAXA
2023.4 – Present	Council Member of SGEPPS (Society of Geomagnetism and Earth, Planetary and Space Sciences)
2023.2 – Present	Associate Editor of Geophysical Research Letters
2022.8 – Present	ISSI-BJ Discipline Scientist
2018 – 2022.5	Member of Science Committee of ISSI
2022 – Present	President of Space and Planetary Sciences Section of Japan Geoscience Union
2019 – Present	Steering Committee of the Japanese Society for Planetary Sciences
2017 – Present	Member of Science Council of Japan

INVOLVED SPACE MISSIONS:

Theory and Modeling Team Lead for JAXA's Arase (ERG) mission
Participating Scientist for NASA's MAVEN mission
Involvement in other space missions:

MMX (Co-I), Bepi-Colombo (Co-I), Kaguya (Co-I), Geotail (STM), FAST (GRA)

SELECTED PUBLICATIONS (from total of 155):

Sakata, R., K. Seki, et al. (2022), Multispecies MHD study of ion escape at ancient Mars: effects of an intrinsic magnetic field and solar XUV radiation, *J. Geophys. Res.*, 127, DOI:10.1029/2022JA030427.

Sakakura, K., K. Seki, et al. (2022), Formation mechanisms of the molecular ion polar plume and its contribution to ion escape from Mars, *J. Geophys. Res.*, 127, DOI:10.1029/2021JA029750.

Seki, K., et al. (2019), “Statistical properties of molecular ions in the ring current observed by the Arase (ERG) satellite”, *Geophys. Res. Lett.*, DOI:10.1029/2019GL084163.

Jakosky, B.M., et al. (2015), MAVEN Observations of the Response of Mars to an Interplanetary Coronal Mass Ejection, *Science*, Vol. 350, Issue 6261, DOI: 10.1126/science.aad0210.

Seki, K., et al. (2018), “Theory, modeling, and integrated studies in the Arase (ERG) project”, *Earth Planets Space*, 10.1186/s40623-018-0785-9.

Seki, K., et al. (2003), “Cold ions in the hot plasma sheet of Earth’s magnetotail”, *Nature*, 442(6932), 589-592, 10.1038/nature01502.

Seki, K., et al. (2001), “On Atmospheric Loss of Oxygen Ions from Earth Through Magnetospheric Processes”, *Science*, 291(5510), 1939-1941, 10.1126/science.1058913.