



[Intelligent System Engineering](#) > ITO Naoki



**ITO Naoki**

Organization	Intelligent System Engineering
Position	Lecturer
Academic Title	Doctor(Engineering)
Research Fields	Instrumentation Engineer, Electronic Device, Microwave and Millimeter-Wave Engineering

## << Research Subjects >>

1. [Microwave/Millimeter-Wave Diagnostic Systems, Devices, and Their Industrial Applications](#)
2. [Microwave/Millimeter-Wave Devices of Advanced Diagnostics for Fusion Plasmas](#)
3. [Low-Loss Materials and Micro-Fabrication Technology for High-Frequency Circuits](#)

## << Academic Activities >>

### Papers and Notes

1. [G. S. Yun, W. Lee, M. J. Choi, J. Lee, M.W. Kim, J. Leem, Y. B. Nam, G.H. Choe, H. K. Park, H. Park, D.S. Woo, K.W. Kim, C. W. Domier, N. C. Luhmann, Jr., N. Ito, A. Mase, and S. G. Lee : "Quasi 3D ECE Imaging System for Study of MHD instabilities in KSTAR", Rev. Sci. Instrum., July 2014, 85, 11D820, pp.11D820 1-3 \(2014\)](#)
2. [D. Kuwahara, N. Ito, Y. Nagayama, T. Yoshinaga, S. Yamaguchi, M. Yoshikawa, J. Kohagura, S. Sugito, Y. Kogi, and A. Mase : "Development of Horn Antenna Mixer Array with Internal Local Oscillator Module for Microwave Imaging Diagnostics", Rev. Sci. Instrum., July 2014, 85, 11D805, pp.11D805 1-3 \(2014\)](#)
3. [H. Miyamoto, N. Ito, A. Mase, I. Tokumoto, and J. Chikushi : "Application of Time Domain Transmissiometry to Coupled Measurements of Soil Moisture and Electrical Conductivity \(in Japanese\)", Irrigation, Drainage and Rural Engineering Journal, December 2013, 288, pp.513-519 \(2013\)](#)
4. [X. Wang, I. Sakagami, N. Ito, and A. Mase : "Miniaturised Horst-type Wilkinson Power Divider with Simple Layout", IET Electronics Letters, June 2013, Vol.49, No.6, pp.384-385 \(2013\)](#)
5. [A. Mase, N. Ito, M. Oda, Y. Komada, D. Nagae, D. Zhang, Y. Kogi, S. Tobimatsu, T. Maruyama, H. Shimazu, E. Sakata, F. Sakai, D. Kuwahara, T. Yshinaga, T. Tokuzawa, Y. Nagayama, K. Kawahata, S. Yamaguchi, S. Tsuji-Iio, C. W. Domier, N. C. Luhmann, Jr., H. K. Park, G. Yun, W. Lee, S. Padhi, and K. W. Kim : "Reflectometric Measurement of Plasma Imaging and Applications", Journal of Instrumentation, January 2012, Vol.7, pp.1-20 \(2012\)](#)
6. [Y. Nagayama, T. Yoshinaga, D. Kuwahara, S. Yamaguchi, Y. Hamada, N. Ito, Y. Ito, Y. Kogi, A. Mase, Z. Shi, S. Sugito, H. Tsuchiya, S. Iio, and LHD Group : "Development of Microwave Imaging Diagnostics in LHD", J. Plasma Fusion Res. Vol.87, No.6 \(June 2011\), pp.359-370 \(2011\)](#)
7. [N. Ito, A. Mase, Y. Kogi, N. Seko, M. Tamada, H. Shimazu, and E. Sakata : "Development of Millimeter-Wave Planar Antennas Using Low-Loss Materials", Jpn. J. Appl. Phys., October 2010, Vol.49, pp.106506-1 - 106506-5 \(2010\)](#)
8. [A. Mase, Y. Kogi, N. Ito, Y. Yokota, K. Akaki, K. Kawahata, Y. Nagayama, T. Tokuzawa, S. Yamaguchi, H. Hojo, N. Oyama, N. C. Luhmann, Jr., H. K. Park, and A. J. H. Donne : "Advancements of Microwave Diagnostics in Magnetically Confined Plasmas", Plasma Devices and Operations, June 2009, Vol.17, No.2, pp.98-116 \(2009\)](#)
9. [H. Miyamoto, N. Ito, E. Yasunaga, S. Takaichi, A. Mase, and J. Chikushi : "Measurement of Dielectric Properties Using Time Domain Transmissiometry with Broad Band Impulse-Signal" \(in Japanese\), Journal of the Japanese Society of Soil Physics, November 2008, No.110, pp.3-12 \(2008\)](#)
10. [Y. Kogi, T. Sakoda, A. Mase, N. Ito, Y. Yokota, S. Yamaguchi, Y. Nagayama, S. H. Jeong, M. Kwon, and K. Kawahata : "Development of multichannel intermediate frequency system for electron cyclotron emission radiometer on KSTAR Tokamak", Rev. Sci. Instrum., October 2008, Vol.79, pp.10F115- 1-3 \(2008\)](#)
11. [N. Ito, A. Mase, Y. Kogi, N. Seko, M. Tamada, and E. Sakata : "New Advanced Fabrication Technique for the Millimeter-wave Planar Components based on Fluoresin Substrates using Graft Polymerization", Jpn. J. Appl. Phys., June 2008, Vol.47, p.4755-4758 \(2008\)](#)

12. [L. Yang, N. Ito, C. W. Domier, N. C. Luhmann, Jr., and A. Mase : "18- to 40 GHz Beam Shaping/Steering Phased Antenna Array System using Fermi Antenna", IEEE Transactions on Microwave Theory and Techniques, April 2008, Vol.56, pp.767-773 \(2008\)](#)
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14. [N. Ito, A. Mase, Y. Kogi, N. Seko, M. Tamada, and E. Sakata : "Development of Millimeter-Wave Planar Devices Using Low-Loss Substrates", Engineering Science Reports, pp.356-359, March 2008](#)
15. [A. Mase, Y. Kogi, N. Ito, Y. Yokota, Y. Nagayama, S. Yamaguchi, T. Tokuzawa, and H. Hojo : "High Performance of Distribution Measurement \(in Japanese\)", J. Plasma Fusion Res., December 2007, Vol.83, No.12, pp.982-996](#)
16. [Y. Kogi, T. Sakoda, A. Mase, N. Ito, S. Yamaguchi, Y. Nagayama, and K. Kawahata : "Development of ECE Imaging System on LHD", Journal of Plasma and Fusion Research, November 2007, Vol.2, pp.S1032\\_1-S1032\\_4 \(2007\)](#)
17. [N. Ito, A. Mase, Y. Kogi, Z. Shen, N. C. Luhmann, Jr., N. Seko, M. Tamada, and E. Sakata : "Advanced Fabrication Method of Planar Components for Plasma Diagnostics", Journal of Plasma and Fusion Research, November 2007, Vol.2, pp.S1042\\_1-S1042\\_4 \(2007\)](#)
18. [Z. Shen, N. Ito, C. W. Domier, N. C. Luhmann, Jr., A. Mase, and E. Sakata : "Protection Filters in ECEI Systems for Plasma Diagnostics", Journal of Plasma and Fusion Research, November 2007, Vol.2, pp.S1030\\_1-S1030\\_5 \(2007\)](#)
19. [Z. Shen, L. Yang, N. C. Luhmann, Jr., C.W. Domier, N. Ito, Y. Kogi, Y. Liang, A. Mase, H. Park, E. Sakata, W. Tsai, Z. G. Xia, and P. Zhang : "Advanced Microwave/Millimeter-Wave Imaging Technology", Journal of Plasma and Fusion Research, November 2007, Vol.2, pp.S1019\\_1-S1019\\_9 \(2007\)](#)
20. [N. Ito, A. Mase, N. Seko, M. Tamada, E. Sakata, and Y. Kogi : "Surface Treatment of PTFE and PFEP by Radiation Grafting", Jap. J. Appl. Phys., December 2006, Vol.45, No.12, pp.9244-9246 \(2006\)](#)
21. [A. Mase, Y. Yokota, K. Uchida, Y. Kogi, N. Ito, T. Tokuzawa, K. Kawahata, Y. Nagayama, K. Tanaka, and H. Hojo : "Remote Experiment of Ultrashort-Pulse Reflectometry on LHD", Review of Scientific Instruments, October 2006, Vol.77, No.10ES916, pp.1-3 \(2006\)](#)

## Presentations

1. [G. S. Yun, W. Lee, M. J. Choi, J. Lee, M.W. Kim, J. Leem, Y. B. Nam, G.H. Choe, H. K. Park, H. Park, D.S. Woo, K.W. Kim, C. W. Domier, N. C. Luhmann, Jr., N. Ito, A. Mase, and S. G. Lee : "Quasi 3D ECE Imaging System for Study of MHD instabilities in KSTAR", 20th Topical Conference on High-Temperature Plasma Diagnostics, June 1-5, 2014, Atlanta, Georgia, USA](#)
2. [D. Kuwahara, N. Ito, Y. Nagayama, H. Tsuchiya, T. Yoshinaga, S. Yamaguchi, M. Yoshikawa, S. Sugito, Y. Kogi, and A. Mase : "Development of Horn Antenna Mixer Array with Internal Local Oscillator Module for Microwave Imaging Diagnostics", 20th Topical Conference on High-Temperature Plasma Diagnostics, June 1-5, 2014, Atlanta, Georgia, USA](#)
3. [Y. Kogi, H. Ikezi, A. Mase, N. Ito, M. Sato, A. Suzuki, F. Sakai, S. Mizukami, K. Kamewari, Y. Okuno, T. Tomio, and M. Inutake : "Development of Spotlight Mode SAR "Live SAR" for Flood Area Surveillance", Asia-Pacific Conference on Synthetic Aperture Radar, September 23-27, 2013, Tsukuba, Japan \(2013\)](#)
4. [G. S. Yun, W. Lee, M. J. Choi, J. Lee, M.W. Kim, J. Leem, Y. B. Nam, G.H. Choe, H. K. Park, H. Park, D.S. Woo, K.W. Kim, C. W. Domier, N. C. Luhmann, Jr., N. Ito, A. Mase, S. G. Lee, and KSTAR team : "Quasi-3D ECE Imaging of MHD instabilities in the KSTAR Tokamak", 16th International Symposium Laser Aided Plasma Diagnostics, September 22-26, 2013, Madison Wisconsin, USA \(2013\) \(Invited\)](#)
5. [J. Leem, M. Kim, J. Lee, G. S. Yun, J. S. Kang, H. K. Park, N. Ito, and A. Mase : "Incident Angle Dependence of Large-Aperture Planar Microwave Filters", 16th International Symposium Laser Aided Plasma Diagnostics, September 22-26, 2013, Madison Wisconsin, USA \(2013\)](#)
6. [N. Ito, A. Mase, K. Kawahata, Y. Nagayama, C. W. Domier, N. C. Luhmann, Jr., G-S. Yun, and H. K. Park : "Fabrication and Evaluation of Notch Filter for KSTAR and LHD", Japan-Korea KSTAR Collaboration Meeting, June 18-19, 2013, NFRI, Korea \(2013\)](#)
7. [A. Mase, N. Ito, Y. Kogi, H. Ikezi, M. Inutake, X. Wang, D. Kuwahara, Y. Nagayama, T. Yoshinaga, S. Yamaguchi, and S. K. Padhi : "Progress in Microwave Imaging of Plasmas and Applications", 2013 International Symposium on Electromagnetic Theory EMTS 2013, May 20-24, 2013, Hiroshima, Japan \(2013\) \(Invited\)](#)
8. [G. S. Yun, W. Lee, M. J. Choi, J. Lee, M.W. Kim, J. Leem, Y. Nam, G.H. Choe, H. K. Park, H. Park, Y. G. Kim, K.W. Kim, C. W. Domier, N. C. Luhmann, Jr., N. Ito, A. Mase, S. G. Lee, and KSTAR team : "MHD and Turbulence Study via 3D ECEI and MIR", KSTAR Conference 2013, Feb.26-27, 2013, Sabi Hall, Lotte Buyeo Resort, Chungam, Korea \(2013\) \(Invited\)](#)
9. [H. K. Park, G. S. Yun, W. Lee, M. J. Choi, J. Lee, M.W. Kim, Y. Nam, G.H. Choe, H. Park, Y. G. Kim, K.W. Kim, C. W. Domier, N. C. Luhmann, Jr., N. Ito, A. Mase, S. G. Lee, and KSTAR team : "First results from 3D ECE Imaging - MHD visualization and pitch angle measurement", KSTAR Conference 2013, Feb.26-27, 2013, Sabi Hall, Lotte Buyeo Resort, Chungam, Korea \(2013\)](#)
10. [A. Mase, N. Ito, Y. Komada, A. Kobayashi, T. Maruyama, Shimazu, E. Sakata, and F. Sakai : "Microwave Reflectometric Measurement of Heart-Rate Variability and Stress Evaluation", Asia-Pacific Microwave Conference, December 4-7, 2012, Kaohsiung, Taiwan \(2012\)](#)
11. [S. K. Padhi, A. Mase, N. Ito, and D. Zhang : "Experimental Performance of Compact UWB Antenna for Breast Cancer Screening", International Conference on Electromagnetics in Advanced Applications \(ICEAA\), September 2-7, 2012, Cape Town, South Africa \(2012\)](#)
12. [A. Mase, N. Ito, Y. Komada, M. Oda, D. Nagae, D. Zhang, Y. Kogi, S. Tobimatsu, T. Maruyama, Y. Nagayama, D. Kuwahara, T. Yoshinaga, S. Yamaguchi, T. Tokuzawa, K. Kawahata, and S. Padhi : "Microwave Reflectometric Measurement of Biological Signals", Electromagnetic Compatibility Symposium, Perth, Australia, November 9-11, 2011 \(2011\)](#)
13. [A. Mase, N. Ito, M. Oda, Y. Komada, D. Nagae, D. Zhang, Y. Kogi, S. Tobimatsu, T. Maruyama, H. Shimazu, E. Sakata, F. Sakai, D. Kuwahara, T. Yshinaga, T. Tokuzawa, Y. Nagayama, K. Kawahata, S. Yamaguchi, S. Tsuji-Iio, C. W. Domier, N. C. Luhmann, Jr., H. K. Park, G. Yun, W. Lee, S. Padhi, and K. W. Kim : "Reflectometric Measurement of Plasma Imaging and Applications", 15th International Conference on Laser Aided Plasma Diagnostics, Jeju, Korea, October 9-13, 2011 \(2011\)](#)
14. [N. Ito, A. Mase, A. Kobayashi, Y. Komada, Y. Kogi, E. Sakata, and H. Shimazu : "Microwave Measurement of Heart Beat Applied to Daily Life", International Conference on Electromagnetics in Advanced Applications \(ICEAA\), Sydney, Australia, September 20-24, 2010 \(2010\)](#)
15. [A. Mase, D. Nagae, N. Ito, and Y. Komada : "Non-contact and Non-invasive Stress Evaluation using Microwave Reflectometry", International Conference on Electromagnetics in Advanced Applications \(ICEAA\), Sydney, Australia,](#)

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16. [A. Mase, N. Ito, D. Zhang, Y. Komada, Y. Yokota, M. Oda, K. Akaki, D. Nagae, H. Ikezi, Z. Shi, D. Kuwahara, T. Yshinaga, Y. Nagayama, T. Tokuzawa, K. Kawahata, Y. Kogi, S. Yamaguchi, H. Hojo, M. Inutake, N. C. Luhmann, Jr., H. K. Park, and K. W. Kim : "Progress in Microwave Diagnostics and Their Applications", The 2nd Int. Workshop on Frontiers in Space & Fusion Energy Sciences, NCKU, Tainan \(November 2009\) \(Invited\)](#)
17. [Y. Kogi, K. Akaki, A. Mase, N. Ito, Y. Yokota, H. Mukunoki, Y. Nagayama, D. Kuwahara, S. Yamaguchi, T. Yoshinaga, J.S.Ho, M. Kwon, K. Kawahata : "Application of Multi-Channel IF System for ECE Radiometer on KSTAR and LHD", Proc. of The 34th International Conference on Infrared, Millimeter, and Terahertz Wave 2009, September 21st-25th, 2009 \(2009\)](#)
18. [N. Ito, A. Mase, Y. Kogi, N. Seko, M. Tamada, and E. Sakata : "Development of planar devices using low-loss materials", 11th IEEE International Conference on Communication Technology, November 10th-12th 2008, Hangzhou, China \(2008\)](#)
19. [A. Mase, Y. Kogi, N. Ito, Y. Yokota, K. Miyazaki, K. Ogawa, S. Takaichi, K. Akaki, D. Nagae, H. Hojo, S. Yamaguchi, T. Tokuzawa, Y. Nagayama, K. Kawahata, C. W. Domier, N. C. Luhmann, H. K. Park, and K. W. Kim : "Advancements of microwave diagnostics and their industrial applications", 11th IEEE International Conference on Communication Technology, November 10th-12th 2008, Hangzhou, China \(2008\) \(Invited\)](#)
20. [A. Mase, Y. Kogi, N. Ito, Y. Yokota, K. Kawahata, Y. Nagayama, T. Tokuzawa, S. Yamaguchi, H. Hojo, N. C. Luhmann, H. K. Park, and A. J. H. Donne : "Advancements of Microwave Diagnostics for Burning Plasmas", International Workshop on Microwave-Laser Diagnostics and Particle-Mirror Interaction for Burning Plasma Experiment, September 12-13th 2008, Shikanoshima, Fukuoka, Japan. \(2008\)](#)
21. [Y. Kogi, A. Mase, K. Akaki, N. Ito, Y. Yokota, S. Yamaguchi, Y. Nagayama, S. H. Jeong, M. Kwon, and K. Kawahata : "Development of Multi-Channel IF system for ECE Radiometer on KSTAR Tokamak", 4th Korea-Japan Diagnostic Seminar, August 25-27, 2008, Postech, Korea \(2008\)](#)
22. [N. Ito, A. Mase, Y. Kogi, Y. Nagayama, T. Liang, C. W. Domier, N. C. Luhmann, Jr., H. K. Park, N. Seko, M. Tamada, and E. Sakata : "Advanced Fabrication Method of Millimeter-Wave Planar Components for Plasma Diagnostics", 4th Korea-Japan Diagnostic Seminar, August 25-27, 2008, Postech, Korea \(2008\)](#)
23. [Y. Kogi, T. Sakoda, A. Mase, N. Ito, Y. Yokota, S. Yamaguchi, Y. Nagayama, S. H. Jeong, M. Kwon, and K. Kawahata : "Development of multichannel intermediate frequency system for electron cyclotron emission radiometer on KSTAR Tokamak", 17th Topical Conference on High-Temperature Plasma Diagnostics, May 11-15, 2008, Albuquerque, New Mexico \(2008\)](#)
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28. [A. Mase, Y. Kogi, N. Ito, Y. Yokota, T. Sakoda, N. Tateishi, K. Ogawa, K. Miyazaki, S. Takaichi, H. Hojo, S. Yamaguchi, T. Tokuzawa, Y. Nagayama, K. Kawahata, C. W. Domier, N. C. Luhmann, Jr., H. K. park, and A. J. H. Donne : "Microwave Imaging for Plasma Diagnostics and Its Applications", Int. Symp. on Laser-Aided Plasma Diagnostics, Sep. 18-21, 2007, Takayama, Japan. \(2007\) \(Invited\)](#)
29. [Z. Shen, N. Ito, Z. Xia, C. W. Domier, A. Mase, and N. C. Luhmann, Jr. : "Wide Bandwidth Mixer Array Development in Millimeter Wave Imaging Systems for Plasma Diagnostics", IEEE the Joint 32nd Int. Conf. On Infrared and Millimeter Waves and 15th Int. Conf. on Terahertz Electronics Sep. 2-7, 2007, Cardiff, U.K. \(2007\)](#)
30. [N. Ito, A. Mase, Y. Kogi, N. Seko, M. Tamada, and E. Sakata : "Development of Planar Components Using Advanced Fabrication", IEEE the Joint 32nd Int. Conf. On Infrared and Millimeter Waves and 15th Int. Conf. on Terahertz. Electronics Sep. 2-7, 2007, Cardiff, U.K. \(2007\)](#)
31. [Z. Shen, N. Ito, E. Sakata, C. W. Domier, N. C. Luhmann, Jr., and A. Mase : "D-Band Double Dipole Antenna for Use in Millimeter Wave Imaging Systems", IEEE Antenna and Propagation Soc. Int. Symp., Jun. 10-15, 2007, Hawaii, U.S.A. \(2007\)](#)
32. [L. Yang, N. Ito, C. W. Domier, N. C. Luhmann, Jr., and A. Mase : "20 GHz to 40 GHz Beam Shaping/Steering Phased Antenna Array System using Fermi Tapered Slot Antenna", IEEE MTT-S International Microwave Symposium, Jun. 3-8, 2007, Hawaii, U.S.A. \(2007\)](#)
33. [N. Ito, A. Mase, N. Seko, M. Tamada, E. Sakata, and Y. Kogi : "Development of Low-Loss Millimeter-Wave Antennas on Fluorine Substrate Using, Electro-Fine-Forming Fabrication", Asia-Pacific Microwave Conference, Dec. 12-15, 2006, Yokohama, Japan. \(2006\)](#)
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36. [N.C. Luhmann, Jr., C.W. Domier, N. Ito, Y. Liang, A. Mase, H. Park, E. Sakata, Z. Shen, W. Tsai, Z. G. Xia, Lu Yang, and P. Zhang : "Advanced Microwave/Millimeter-Wave Imaging Technology", 16th Int. Toki Conf. on "Advanced Imaging and Plasma Diagnostics", Dec. 5-8, 2006, Toki City, Japan. \(2006\)\(Invited\)](#)
37. [Z. Shen, N. Ito, C.W. Domier, N.C. Luhmann, Jr., A. Mase, and E. Sakata : "Protection Filters in ECEI Systems for Plasma Diagnostics", 16th Int. Toki Conf. on "Advanced Imaging and Plasma Diagnostics", Dec. 5-8, 2006, Toki City, Japan. \(2006\)](#)
38. [N. Ito, A. Mase, N. Seko, M. Tamada, E. Sakata, and Y. Kogi : "Development of Low-Loss Millimeter-Wave Antennas Using Electro-Fine-Forming Fabrication", IEEE the Joint 31st Int. Conf. On Infrared and Millimeter Waves and 14th Int. Conf. on Terahertz Electronics Sep. 18-22, 2006, Shanghai, China. \(2006\)](#)
39. [A. Mase, Y. Kogi, N. Ito, L.G. Bruskin, H. Hojo, K. Kawahata, Y. Nagayama, T. Tokuzawa, S. Yamaguchi, N. Oyama, N.C. Luhmann, Jr., C. W. Domier, H. K. Park, E. Mazzucato, and A. J. H. Donne : "Microwave Diagnostics", The 3rd Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasma, Aug. 31-Sep. 3, 2006, Matsushima, Miyagi, Japan. \(2006\)](#)
40. [Z. Shen, N. Ito, E. Sakata, C. W. Domier, Y. Liang, N. C. Luhmann, Jr., and A. Mase : "Frequency Selective Surface Notch Filter for use in a Millimeter Wave Imaging System", IEEE Antennas and Propagation Society URSI International Symposium, Jul. 9-14, 2006, Albuquerque, New Mexico, U.S.A. \(2006\)](#)

41. [A. Mase, Y. Yokota, K. Uchida, Y. Kogi, N. Ito, T. Tokuzawa, K. Kawahata, K. Tanaka, Y. Nagayama, and H. Hojo : "Remote Experiment of Ultrashort-Pulse Reflectometry on LHD", 16th Conference on High-Temperature Plasma Diagnostics \(HTPD 2006\), May 7-12, 2006, Williamsburg, Virginia, U.S.A. \(2006\)](#)
42. [Y. Kogi, A. Mase, K. Kudo, M. Ignatenko, N. Ito, T. Tokuzawa, Y. Nagayama, K. Kawahata, S. Aoi, and E. Sakata : "Development of New Detector for Millimeter-Wave Imaging", IEEE the Joint 30th Int. Conf. on Infrared and Millimeter Waves and 13th Int. Conf. on Terahertz Electronics Sep. 19-23, 2005, Williamsburg, Virginia, U.S.A. \(2005\)](#)