

List of Publications

List of publications

(1) Papers

1. D. Li, M. Hangyo, Y. Tsunawaki, Z. Yang, Y. Wei, S. Miyamoto, M. R. Asakawa, and K. Imasaki, "Growth rate and start current in Smith–Purcell free-electron lasers", *Appl. Phys. Lett.* 100, 191101-1-3(2012).
2. D. Li, M. Hangyo, Y. Tsunawaki, Z. Yang, Y. Wei, S. Miyamoto, M. R. Asakawa and K. Imasaki, "Theoretical Analysis on Smith-Purcell Free-Electron Laser", "Free Electron Lasers", Edited by Sándro Varró,INTECHWEB.ORG, Janeza Trdine 9, 51000 Rijeka, Croatia, March 2012, ISBN:978-953-51-0279-3. Chapter 6, pp151-174 (2012).
3. Tomoaki Inoue, Takayasu Mochizuki, Shuji Miyamoto, Kazuya Masuda, Sho Amano, and Kazuhiro Kanda, "Characteristics of a Cylindrical Collector Mirror for Laser^Produced Xenon Plasma Soft X-Rays and Improvement of Mirror Lifetime by Buffer Gas", *Review of Scientific Instruments*, v.83, no.12, 123110-15 (2012).
4. S.Amano, T.Inoue, "Laser-plasma extreme-ultraviolet source at 6.7nm using a rotating cryogenic Xe target", *Applied Physics B*, Vol.108, 743-747(2012)
5. Hideki Kido, Tomoyuki Kuroki, Masaaki Okubo, Yuichi Utsumi, "Application of photo-etching of polytetrafluoroethylene induced by high energy synchrotron radiation to LIGA", *Microsystem Technologies*, 19, 3, 301-307, (2013)
6. Ryo Takahashi, Takao Fukuoka, Yuichi Utsumi, and Akinobu Yamaguchi, "Optofluidic Devices with Surface-Enhanced Raman Scattering Active Three- Dimensional Gold Nanostructure", *Japanese Journal of Applied Physics*, in press, (2013)
7. 池内裕章, 岸原充佳, 内海裕一, 河合正, 太田勲, "放射光直接エッチングによるテフロン導波管横断回路の設計と試作", 電子情報通信学会論文誌(C), vol.J95-C, no.12, pp.531-534, Dec. 2012
8. Yasuharu Ohgoe, Kenji K. Hirakuri, Hidetoshi Saitoh, Takahiro Nakahigashi, Naoto Otake, Atsushi, Hirata, Kazuhiro Kanda, Masanori Hiratsuka, Yasuhiro Fukui, "Classification

of DLC films in terms of biological response”, Surface & Coatings Technology, 207, 350-354 (2012)

9. Tomoaki Inoue, Takayasu Mochizuki, Kazuya Masuda, Sho Amano, Tsugushima Sekioka, Kazuhiro Kanda, “Effective collision cross section of xenon plasma debris in argon buffer gas”, J. Phys. B: At. Mol. Opt. Phys., 45, 115401 (2012)
10. Akihiro Fujimoto, Makoto Okada, Yuji Kang, Masahito Niibe, Shinji Matsui, Kanda, Tsuneo Suzuki, and Kazuhiro Kanda, “Effective collision cross section of xenon plasma debris in argon buffer gas”, Jpn. J. Appl. Phys., 51, 06FD07 (2012)
11. Akira Wada, Katsuaki Koshimura, Masahito Niibe, Hidetoshi Saitoh, Kazuhiro Kanda, and Haruhiko Ito, “Carbon-K NEXAFS measurements of a-CNx films formed from decomposition of BrCN in electron cyclotron resonance plasma of He, Ne, and Ar”, Journal of Non-Crystalline Solids, 358, 124-128 (2012)
12. Takeo Watanabe, Yuichi Haruyama, Daiju Shiono, Kazuya Emura, Takuro Urayama, Tetsuo Harada, and Hiroo Kinoshita, "Chemical Reaction Analysis of EUV CA Resist using SR Absorption Spectroscopy," J. Photopolymer Sci. Technol 25, 569, 2012.
13. Yukiko Kikuchi, Eishi Shiobara, Hiroyuki Tanaka, Isamu Takagi, Kazuhiro Katayama, Norihiko Sugie, Toshiya Takahashi, Soichi Inoue, Tekeo Watanabe, Tetsuo Harada, and Hiroo Kinoshita, Study of EUV outgassing spatial distribution toward witness plate in the EUV outgas tester, SPIE Proc. 8679, 86790M, 2012.
14. Mitsunori Toyoda, Kenjiro Yamasoe, Tadashi Hatano, Mihiro Yanagihara, Akifumi Tokimasa, Tetsuo Harada, Takeo Watanabe, and Hiroo Kinoshita, At-Wavelength Extreme Ultraviolet Lithography Mask Observation Using a High-Magnification Objective with Three Multilayer Mirrors, Appl. Phys. Exp. **5**, 112501, 2012.
15. Yutaka Nagata, Tetsuo Harada, Masato Nakasaji, Hiroo Kinoshita, Katsumi Midorikawa, “Development of highly spatial-coherent, 13.5-nm high-order harmonics for EUVL mask inspection using coherent EUV scatterometry microscope”, IEEE, Photonics Conference Proceeding, 935-936, (2012).
16. Tetsuo Harada, Masato Nakasaji, Takeo Watanabe, Yutaka Nagata, Hiroo Kinoshita,

Development of standalone coherent EUV scatterometry microscope with high-harmonic-generation EUV source, SPIE Proc. 8441, 8441-2, 2012. (invited paper)

17. Masato Nakasuji, Akifumi Tokimasa, Tetsuo Harada, Yutaka Nagata, Takeo Watanabe, Katsumi Midorikawa, Hiroo Kinoshita, Development of Coherent Extreme-Ultraviolet Scatterometry Microscope with High-Order Harmonic Generation Source for Extreme-Ultraviolet Mask Inspection and Metrology, Jpn. J. Appl. Phys. **51**, 06FB09, 2012.
18. Tetsuo Harada, Masato Nakasuji, Akifumi Tokimasa, Takeo Watanabe, Youichi Usui, and Hiroo Kinoshita, Defect Characterization of an Extreme-Ultraviolet Mask Using a Coherent Extreme-Ultraviolet Scatterometry Microscope, Jpn. J. Appl. Phys. **51**, 06FB08, 2012.
19. 村松康司, 潟田明信, 原田哲男, 木下博雄, ニュースバル多目的ビームライン BL-10 における軟X線吸収分析(1); 分光特性評価と軽元素標準仕様の XANES 測定, X 線分析の進歩 第 43 集, 407, 2012. (in Japanese)
20. 渡邊健夫, 原田哲男, 木下博雄, 「EUV リソグラフィ研究開発センターにおけるリソグラフィ開発」, クリーンテクノロジー2012 年 6 月号, 2012. (in Japanese)
21. Toshiya Takahashi, Norihiko Sugie, Kazuhiro Katayama, Isamu Takagi, Yukiko Kikuchi, Eishi Shiobara, Hiroyuki Tanaka, Soichi Inoue, Takeo Watanabe, Tetsuo Harada, and Hiroo Kinoshita, Resist outgassing characterization for qualification in high power EUV Lithography, SPIE Proc. 8322, 83221E, 2012.
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23. M. Okada, M. Iwasa, H. Hiroshima, Y. Haruyama, K. Kanda, and S. Matsui, "Adhesion and frictional force measurements employing scanning probe microscopy in a pentafluoropropane gas atmosphere", J. Vac. Sci. Technol. B 30, 011601-3, 2012
24. S. Iyoshi, M. Okada, T. Katase, K. Tone, K. Kobayashi, S. Kaneko, Y. Haruyama, M. Nakagawa, H. Hiroshima, and S. Matsui, "Step and Repeat Ultraviolet Nanoimprinting under Pentafluoropropane Gas Ambient", Jpn. J. Appl. Phys. 51, 06FJ08-6, 2012
25. K Kanda, T Hasegawa, M Uemura, M Niibe, Y Haruyama, M. Motoyama, K Amemiya, S

Fukushima, and T Ohta, "Construction of a Wide-range High-resolution Beamline BL05 in NewSUBARU for Soft X-ray Spectroscopic Analysis on Industrial Materials", Journal of Physics: Conference Series 425, 132005, 2013

26. Masahito Niibe, Takuya Kotaka, Tohru Mitamura, "Investigation of analyzing depth of N-K absorption spectra measured using TEY and TFY method", J. Phys.: Conf. Series, 425, 132008 (2013).
27. Masahito Niibe, Keigo Koida, Yukinobu Kakutani: "Contamination experiments for Mo/Si multilayer mirrors with the use of single-bunch synchrotron radiation", J. Phys.: Conf. Series, 425, 132021 (2013).
28. M. Niibe, K. Sano, T. Kotaka, R. Kawakami, K. Tominaga, Y. Nakano: "Etching Damage and Its Recovery by Soft X-ray Irradiation Observed in Soft X-ray Absorption Spectra of TiO₂ Thin Film", J. Appl. Phys., 113, 126101 (2013).
29. S. Hori, M. Niibe, T. Kotaka, K. Fujii, K. Yoshiki, T. Namazu and S. Inoue, "X-ray Absorption Studies on the Growth Process of RF Magnetron Sputtered BN Films: Bias Voltage and Substrate Temperature Effects", Jpn. J. Appl. Phys., 52, 045602 (2013).
30. M. Niibe, T. Kotaka, R. Kawakami, Y. Nakano, T. Inaoka, K. Tominaga, T. Mukai, "Damage Analysis of n-GaN Crystal Etched with He and N₂ Plasmas", Jpn. J. Appl. Phys. 52, 01AF04 (2013). Ranked in the Top 20 Most Downloaded Articles in JJAP (February 2013).
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32. R. Kawakami, A. Takeichi, M. Niibe, M. Konishi, Y. Mori, T. Kotaka, T. Inaoka, K. Tominaga, T. Mukai: "Capacitively coupled radio frequency nitrogen plasma etch damage to N-type gallium nitride", Vacuum 87, 136-140 (2013).
33. S. Honda, S. Nanba, Y. Hasegawa, Y. Noshio, A. Tsukagoshi, M. Niibe, M. Terasawa, R. Hirase, H. Izumi, H. Yoshioka, K-Y. Lee, K. Niwase, E. Taguchi, M. Oura, "Defect Evolution in Multiwalled Carbon Nanotube Films Irradiated by Ar Ions" Jpn. J. Appl. Phys., 51 110202 (2012).

34. R. Kawakami, M. Niibe, A. Takeichi, Y. Mori, M. Konishi, T. Kotaka, F. Matsunaga, T. Takasaki, T. Kitano, T. Miyazaki, T. Inaoka, K. Tominaga: "Characteristics of TiO₂ Thin Film Surfaces Treated by Helium and Air Dielectric Barrier Discharge Plasma", Jpn. J. Appl. Phys. 51, 08HB04 (2012).

(2)International Meetings

1. Yoshihiro ASANO, Shuji MIYAMOTO, and LEPS-II collaboration, "Shielding Design of Laser Electron Photon Beamlines at SPring-8", "12th International Conference on Radiation Shielding(ICRS-12) & Topical Meeting of RPS Division of American Nuclear Society (RPSD-2012)", September 2-7, 2012, Nara Prefectural New Public Hall, Nara, Japan
2. Shuji Miyamoto, "Gamma-ray Beambeamline on NewSUBARU" , "Science and Technology with MeV Photons at Canadian Light Source", Univ. of Saskatchewan, Jan. 18-19 (2013).
3. S.Amano, and T.Inoue, "Diamond-Like Carbon Sputtering by Laser Produced Xe Plasma", 8th International Symposium on Swift Heavy Ions in Matter (SHIM2012), Kyoto, Oct.24-27, 2012.
4. T.Sekioka, S.Amano, T.Inoue, and T.Mochizuki, "Characteristics of Fast Ions from Laser-Induced Plasma and their Applicability to Shallow Junction Doping", 8th International Symposium on Swift Heavy Ions in Matter (SHIM2012), Kyoto, Oct.24-27, 2012.
5. Hiroki Nose, Masaki Ishizawa, Kazuhisa Kuroda, Takeshi Kunisada, Masatoshi Kataoka, Yuichi Utsumi, "Blood separation chip for automated biological analysis", RSC(Royal Society of Chemistry) Tokyo International Conference, pp12, September 6-7 (2012), Chiba, Japan
6. Ryo Takahashi, Takao Fukuoka, Yuichi Utsumi, "ERS Active Self-assembled Nanostructures toward Higher Dimension III: Sterically-bulky Self Assembles Array", RSC(Royal Society of Chemistry) Tokyo International Conference, p12, September 6-7 (2012), Chiba, Japan
7. Takao Fukuoka, Ryo Takahashi, Yuichi Utsumi, Motofumi Suzuki, "SERS Active Self-assembled Nanostructures toward Higher Dimension II : Physically Self-assembled Nanoparticles Array", RSC(Royal Society of Chemistry) Tokyo International Conference, p11, September 6-7 (2012), Chiba, Japan

8. Ryo Takahashi, Takao Fukuoka, Yuichi Utsumi, "Three Dimensional Gold Nanostructure for Plasmonic Sensing", Gold Science Technology and its Applications, the 6th International Conference, 2P-043, September 5-8 (2012), Tokyo, Japan
9. Yuji Yoritama, T. Uchiyama , Akinobu Yamaguchi, Yuichi Utsumi, "Fabrication of Integrated Magneto Impedance Sensor for Medical Monitoring", 38th International Conference on Micro and Nano Engineering (MNE2012) , p298-378, September 16-20 (2012), Toulouse, France
10. Masaki Ishizawa, Yuichi Utsumi, "Contamination-Free Internally-Triggered Automatic Flow Sequencing for Microfluidics", 38th International Conference on Micro and Nano Engineering (MNE2012) , p338-313, September 16-20 (2012), Toulouse, France
11. Hideki Kido, Yuichi Utsumi, Toshihiko Asami, Hajime Mita, "Fabrication of fluorocarbon resin micro fluidic chip for processing of amino acid derivatization" , 38th International Conference on Micro and Nano Engineering (MNE2012), p342-339, September 16-20 (2012), Toulouse, France
12. Ryo Takahashi, Takao Fukuoka, Yuichi Utsumi, "SERS Active Three Dimensional Gold Nanostructure Fabrication for Optofluidic Device" , 38th International Conference on Micro and Nano Engineering (MNE2012), p343-346, September 16-20 (2012), Toulouse, France
13. Ryo Takahashi, Mitsuhiro Yoshida, Yuichi Utsumi, "Single Molecule Detection Using Sterically-bulky Self Assembles of Gold Nanoparticles", 38th International Conference on Micro and Nano Engineering (MNE2012), p123-546, September 16-20 (2012), Toulouse, France
14. Tsunemasa Saiki, Yasuto Arisue, Kei Kuramoto, Hiroo Shizuka, Masahiro Takeo, Kazusuke Maenaka, Yuichi Utsumi, "Direction Control of Powder Transport on Solid Substrate by Drive Frequency of Surface Acoustic Wave Actuator", 38th International Conference on Micro and Nano Engineering (MNE2012), p279-022, September 16-20 (2012), Toulouse, France
15. Yoshiaki Ukita, Takayuki Oguro, Masaki Ishizawa, Hiroki Nose, Yuichi Utsumi, Yuzuru Takamura, "Visualization of Biological Fluid Behaviour on Spinning Centrifugal Microfluidics using Coaxial Micro-Stroboscope" 38th International Conference on Micro and Nano Engineering (MNE2012), p398-304, September 16-20 (2012), Toulouse, France

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17. Masahiro Takeo, Isao Kawaji, Akihiro Nakasuji, Takaaki Tone, Yoshiaki Ukita, Dai-ichiro Kato, Seiji Negoro, Shinichi Yusa, Makoto Katayama, Yuichi Utsumi, "Automatic ELISA Analytical System for a Trace Amount of Environmental Chemicals Using A 3-Dimensional Microreactor with a Novel Antigen-Bound Microfilter", 16th International Conference on Miniaturized Systems for Chemistry and Life Science (μ TAS), p1192-1164, October 28- November 1 (2012), Okinawa, Japan
18. Yoshiaki Ukita, Masaki Ishizawa, Yuzuru Takamura, Yuichi Utsumi, "Internally Triggerd Multistep Flow Sequencers Using Clepsydra", 16th International Conference on Miniaturized Systems for Chemistry and Life Science (μ TAS), p1465-1467, October 28- November 1 (2012), Okinawa, Japan
19. Kyuya Nakagawa, Akihiro Tamura, Yuki Goto, Masahiro Takeo, Yuichi Utsumi, "Preparation of Freeze-Dried Porous Media in a Microchannel: A New Platform for Enzymatic Reactions", 16th International Conference on Miniaturized Systems for Chemistry and Life Science (μ TAS), p1765-1767, October 28- November 1 (2012), Okinawa, Japan
20. Hideki Kido, Ikuo Okada, Yuichi Utsumi, Toshihiko Asami, Hajime Mita, "Fabrication of PTFE micro fluidic chip for processing of amino acid derivatization", 25th International Microprocesses and Nanotechnology Conference (MNC2012), 2P-11-91, October 30-Nobember 2 (2012), Kobe, Japan
21. Yasuto Arisue, Tsunemasa Saiki, Kei Kuramoto, Yutaka Hata, Hiroo Shizuka, Kazusuke Maenaka, Yuichi Utsumi, "Proposal of Particle Size Sorting Method by Surface Acoustic Wave", 25th International Microprocesses and Nanotechnology Conference (MNC2012), 2P-11-96, October 30-Nobember 2 (2012), Kobe, Japan
22. Masaki Ishizawa, Yuichi Utsumi, "Clepsydra-based Autonomous Flow Sequencer with Liquid Trap Reservoir", 25th International Microprocesses and Nanotechnology Conference (MNC2012), 2P-11-92, October 30-Nobember 2 (2012), Kobe, Japan

23. Ryo Takahashi, Takao Fukuoka, Yuichi Utsumi, "Optofluidic Device with SERS Active Three Dimensional Gold Nanostructure", 25th International Microprocesses and Nanotechnology Conference (MNC2012), 2P-11-102, October 30-Nobember 2 (2012), Kobe, Japan
24. Tetsuo Harada, Masato Nakasaji, Takeo Watanabe, Hiroo Kinoshita, Yutaka Nagata, "Development of Standalone Coherent EUV Scatterometry Microscope for EUV Mask Observation", EIPBN2012, Hilton Waikoloa Village, Hawaii, USA, 2012/05/30.
25. Mitsunori Toyoda, Kenji Yamasoe, Tadashi Hatano, Mihiro Yanagihara, Akifumi Tokimasa, Tetsuo Harada, Takeo Watanabe, and Hiroo Kinoshita, "At-Wavelength EUV Lithography Mask Observation Using a High-Magnification Objective with Three Multilayer Mirrors," EIPBN2012, Hilton Waikoloa Village, Hawaii, USA, 2012/05/30.
26. Takeo Watanabe, Yukiko Kikuchi, Toshiya Takahashi, Kazuhiro Katayama, Isamu Takagi, Norihiko Sugie, Hiroyuki Tanaka, Eishi Shiobara, Soichi Inoue Testuo Harada, and Hiroo Kinoshita, "Development of the Novel Evaluation Tool with an In-situ Ellipsometer for the Thickness Measurement of the Contamination Originated by the High Power EUV Irradiation on EUV Resist", 2012 International Workshop on EUV Lithography, Maui, Hawaii, USA, 2012/6/6.
27. Takeo Watanabe, Daiju Shiono, Yuichi Haruyama, Tetsuo Harada, and Hiroo Kinoshita, "Chemical Reaction Analysis based on the SR Absorption Spectroscopy for the High Sensitive EUV Resist", 2012 International Workshop on EUV Lithography, Maui, Hawaii, USA, 2012/6/6.
28. Hiroo Kinoshita, "Possibility of EUVL system at the Wavelength of 6.8 nm", 2012 International Workshop on EUV Lithography, Maui, Hawaii, USA, 2012/6/6.
29. Hiroo Kinoshita, Tetsuo Harada, Yutaka Nagata, Mitsunori Toyoda, and Takeo Watanabe, "Development of Actinic Mask Inspection Systems", 2012 International Workshop on EUV Lithography, Maui, Hawaii, USA, 2012/6/6.
30. K. Tsubakimoto, H. Yoshida, H. Fujita, N. Miyanaga, Y. Nagata, H. Kinoshita, "240W, 10kHz Green Laser from Harmonic Converted Nd:YAG MOPA", Advanced Lasers and Photon Sources 2012, Yokohama, Japan, Apr. 25-27, 2012.

31. Tetsuo Harada, Masato Nakasuji, Takeo Watanabe, Yutaka Nagata, Hiroo Kinoshita, "Development of Coherent EUV Scatterometry Microscope with High Harmonic Generation EUV Source", 2012 International Symposium on Extreme Ultraviolet Lithography, Brussel, Belgium, Sept. 30 – Oct. 4, 2012.
32. Takeo Watanabe, Daiju Shiono, Yuichi Haruyama, Kazuya Emura, Takuro Urayama, Katsumi Ohmori, Kazufumi Sato, Tetsuya Harada, and Hiroo Kinoshita, "The Mitigation of EUV Resist for the High Sensitivity and the Effect of Acid Diffusion for LWR on the basis of the Chemical Reaction Analysis", 2012 International Symposium on Extreme Ultraviolet Lithography, Brussel, Belgium, Sept. 30 – Oct. 4, 2012.
33. Yukiko Kikuchi, Toshiya Takahashi, Norihiko Sugie, Takeo Watanabe, Tetsuo Harada, Hiroo Kinoshita, Kazuhiro Katayama, Isamu Takagi, Eishi Shiobara, Hiroyuki Tanaka, and Soichi Inoue, "The Characterization of the Witness Sample Testing for the Outgassing Qualification of EUV Resists", 2012 International Symposium on Extreme Ultraviolet Lithography, Brussel, Belgium, Sept. 30 – Oct. 4, 2012.
34. Isamu Takagi, Toshiya Takahashi, Norihiko Sugie, Takeo Watanabe, Tetsuo Harada, Hiroo Kinoshita, Kazuhiro Katayama, Yukiko Kikuchi, Eishi Shiobara, Hiroyuki Tanaka, and Soichi Inoue, "Study of Contamination due to EUV Resist Outgassing", 2012 International Symposium on Extreme Ultraviolet Lithography, Brussel, Belgium, Sept. 30 – Oct. 4, 2012.
35. Hiroo Kinoshita, Takeo Watanabe, Tetsuo Harada, "Recent Activities on EUVL in NewSUBARU," Micro Nano Conference, Kobe, Japan, Nov. 1, 2012.
36. Tetsuo Harada, Masato Nakasuji, Yutaka Nagata, Takeo Watanabe, and Hiroo Kinoshita, "Phase Imaging of EUV Mask using Coherent EUV Scatterometry Microscope," Micro Nano Conference, Kobe, Japan, Nov. 1, 2012.
37. Takeo Watanabe, Daiju Shiono, Yuichi Haruyama, Kazuya Emura, Takuro Urayama, Katsumi Ohmori, Kazufumi Sato, Tetsuo Harada, and Hiroo Kinoshita, "The Analytical Mitigation of EUV Resist for the High Sensitivity and the Low LWR using SR Absorption Spectroscopy," Micro Nano Conference, Kobe, Japan, Nov. 1, 2012.
38. Mitsunori Toyoda, Kenji Yamasoe, Tadashi Hatano, Mihiro Yanagihara, Akifumi Tokimasa, Tetsuo Harada, Hiroo Kinoshita, Tsuyoshi Amano, and Tsuneo Terasawa, "An EUV

mask-imaging microscope for lithography generations with sub-16 nm half pitch,” Micro Nano Conference, Kobe, Japan, Nov. 1, 2012.

39. Y. Kang, R. Takahashi, T. Fukuoka, Y. Utsumi, M. Okada, Y. Haruyama, S. Matsui, “Gold nanoparticles self-assembly assisted with imprinted HSQ pattern for SERS measurement”, 25th International Microprocesses and Nanotechnology Conference (MNC2012), 2P-11-78, October 30-Nobember 2 (2012), Kobe, Japan
40. Hiroki Nose, Masaki Ishizawa, Takeshi Kunisada, Kazuhisa Kuroda, Akinobu Yamaguchi, Yuichi Utsumi, “Blood separation lab-on-a-CD with controlled surface” , 7th International Conference on Molecular Electronics and Bioelectronics (M&BE7), pp89, March 17-19 (2013), Fukuoka, Japan
41. Yuji Yoritama, S. Yamamoto, T. Uchiyama , Akinobu Yamaguchi, Yuichi Utsumi, “Three-Dimensional Magneto Impedance Sensor using a Multi Layers Electroplating technique” , 7th International Conference on Molecular Electronics and Bioelectronics (M&BE7), pp178, March 17-19 (2013), Fukuoka, Japan
42. Mitsuyoshi Kishihara, M. Yamashima, Yuichi Utsumi, “A Chip-Size Structure for Continuous Microwave Irradiation by Post-Wall Waveguide”, Proc. of 2012 Asia-Pacific Microwave Conference, 2D3-01, pp.265-267, December 4-7 (2012), Kaohsiung, Taiwan
43. Ryo Imai, Kazuhiro Fukuda, Masaharu Uemura, Takayuki Hasegawa, Muneyuki Motoyama, Mititaka Terasawa, Kazuhiro Kanda, “The Classification of Diamond-Like Carbon Thin Films Using BL05 in NewSUBARU”, Royal Society of Chemistry-Tokyo International Conference 2012 (RSC-TIC 2012), Chiba, 2012/9/6-7
44. M.Uemura, T.Hasegawa, M.Sawa, N.Yokoi, N.Fukada, M.Shimizu, T.Tsurui, K.Amemiya, T.Ohta, M.Motoyama, K.Kanda, S.Fukushima, “L-edge for the 1st period transition elements”, The 14th European Conference on X-Ray Spectrometry (EXES 2012), Vienna, 2012/6/18-22
45. T.Hasegawa, M.Uemura, T. Tanigawa, M.Sawa, N.Yokoi, N.Fukada, M.Shimizu, T.Tsurui, K.Amemiya, T.Ohta, M.Motoyama, K.Kanda, S.Fukushima, “K and L-edge Spectra of Several Sulfur Compounds”, The 14th European Conference on X-Ray Spectrometry (EXES 2012), Vienna, 2012/6/18-22

46. K. Kanda, T. Hasegawa, M. Uemura, M. Niibe, Y. Haruyama, M. Motoyama, K. Amemiya, S. Fukushima, and T. Ohta, "Construction of a Wide-range High-resolution Beamline BL05 in NewSUBARU for Soft X-ray Spectroscopic Analysis on Industrial Materials", The 11th International Conference on Synchrotron Radiation Instrumentation (SRI 2012), Lyon, 2012/7/9-13
47. Y. Nakano, K. Nakamura, M. Niibe, R. Kawakami, N. Ito, T. Kotaka, K. Tominaga, "Effect of UV Irradiation on Ar-Plasma Etching Characteristics of GaN", 5th International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials, January 28-February1 (2013), Nagoya, Japan.
48. Y Nakano, M. Niibe, M. Lozac'h, L. Sang, M. Sumiya, "Deep level investigation of thick InGaN films", 5th International Symposium on Advanced Plasma Science and its Applications for Nitrides and , Nanomaterials, January 28-February1 (2013), Nagoya, Japan.
49. S. Honda, Y. Noshio, A. Tsukagoshi, H. Okada, M. Niibe, M. Terasawa, R. Hirase, H. Yoshioka, H. Izumi, K. Niwase, E. Taguchi, K.-Y. Lee and M. Oura, "Change of Diameters of Multi-walled Carbon Nanotubes by Multiply Charged Ar Ion Irradiation", 25th International Conf. on Atomic Collisions in Solids, Oct. 21-25 (2012), Kyoto, Japan.
50. S. Honda, Y. Noshio, A. Tsukagoshi, S. Miyamoto, M. Niibe, M. Terasawa, T. Tokushima, Y. Horikawa, R. Hirase, H. Yoshioka, H. Izumi, K. Niwase, E. Taguchi, K.-Y. Lee and M. Oura:
51. "Analysis of the C1s X-ray Photoelectron Spectrum and C K α X-ray Emission Spectrum of Multi-walled Carbon Nanotubes Irradiated by Multiply Charged Ar Ion", 25th International Conf. on Atomic Collisions in Solids, Oct. 21-25 (2012), Kyoto, Japan.
52. R. Kawakami, M. Niibe, H. Takeuchi, M. Konishi, Y. Mori, T. Shirahama, T. Yamada K. Tominaga, "SiC Surface Damage Originating from Synergy Effect of Ar Plasma Ion and Plasma-Induced Ultraviolet Light Irradiations" 25th International Conf. on Atomic Collisions in Solids, Oct. 21-25 (2012), Kyoto, Japan.
53. A. Tsukagoshi, R. Osugi, H. Okada, S. Honda, M. Niibe, M. Terasawa, R. Hirase, H. Yoshioka, H. Izumi, K. Niwase, E. Taguchi, K.-Y. Lee and M. Oura, "Spectroscopic Characterization of Ion-irradiated Multi-layer Graphenes", 25th International Conf. on Atomic Collisions in Solids,

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