

Presentations (Invited) (Apr.2010-Mar.2011)

1. Y. Kawano: "Terahertz characterization of graphene and its application to an ultra-wide band tunable detector", 9th Metamaterials & Nanophotonics Symposium, Wako, Japan, Mar.(2011).
2. Y. Furukawa, Y. Nabekawa, T. Okino, K. Yamanouchi, and K. Midorikawa: "Nonlinear Fourier-transform spectroscopy of hydrogen molecules using high-order harmonic radiation", 4th Asian Workshop on Generation and Application of Coherent XUV and X-ray Radiation, Pohang, Korea, Jan. (2011).
3. Y. Kawano (**Keynote**): "A Wide-Band Frequency-Tunable Terahertz Detector Using a Graphene Device", 2nd International Workshop on THz-Bio, Seoul, Korea, Jan. (2011).
4. S. Moriyama, D. Tsuya, E. Watanabe, S. Uji, M. Shimizu, and K. Ishibashi: "Quantum dots and nanostructures in graphene", ISNTT2011, International Symposium on Nanoscale Transport and Technology, Kanagawa, Japan, Jan.(2011).
5. T. Sato, T. Togashi, E. J. Takahashi, K. Midorikawa, M. Aoyama, K. Yamakawa, A. Iwasaki, S. Owada, T. Okino, K. Yamanouchi, F. Kannari, A. Yagishita, H. Nakano, M.-E. Couprie, K. Fukami, T. Hatsui, T. Hara, T. Kameshima, H. Kitamura, N. Kumagai, S. Matsubara, M. Nagasono, H. Ohashi, T. Ohshima, Y. Otake, T. Shintake, K. Tamasaku, H. Tanaka, T. Tanaka, K. Togawa, H. Tomizawa, T. Watanabe, M. Yabashi, and T. Ishikawa: "Intense extreme ultraviolet light source based on single pass free electron laser seeded by high-order harmonic generation of Ti:Sapphire laser", The 4th Asian Workshop on Generation and Applications of Coherent XUV and X-ray Radiation, Pohang, Korea, Jan. (2011).
6. K. Midorikawa: "Attosecond nonlinear Fourier transform spectroscopy in the XUV region", International symposium on Ultrafast Intense Laser Science 9, Lahania, Hawaii, USA, Dec. (2010).
7. Y. Kawano: "Highly sensitive terahertz sensing and imaging devices with nano-structured semiconductors and carbon materials", 3rd Korea-Japan Workshop on Terahertz Technology, Busan, Korea, Dec. (2010).
8. K. Midorikawa: "Recent progress on intense high harmonic generation and its application at RIKEN", International Symposium on Chirped Pulse Amplification, Quebec City, Canada, Nov. (2010).
9. K. Midorikawa: "Recent progress on high harmonic generation and attosecond science at RIKEN", Photonics and OptElectronic Meeting 2010, Wuhan, China, Nov. (2010).
10. H.Ohmori: "Nanoprecision Ultra Fabrication Technologies for Micro-Structural Optics and On-Demand Fabrication System", 2nd Seminar on Nano-Mirror Ultraprecision Machining Technology, Gwanju, Korea, Nov. (2010).
11. K. Midorikawa: "Attosecond nonlinear Fourier transform spectroscopy", 6th Asian Symposium on Intense Laser Science, Beijing, China, Oct. (2010).
12. Y. Kawano: "Terahertz-wave sensing and imaging based on nanostructured electronic devices", 1st Annual World Congress of Nanomedicine (Nanomedicine 2010), Beijing, China, Oct. (2010).
13. S. Nakashima, K. Sugioka, T. Ito, H. Takai, and K. Midorikawa: "Fabrication of periodic nano-hole array on GaN surface by fs laser for improvement of extraction efficiency in blue LED", 6th Int. Conf. on Laser Assisted Netshape Engineering (LANE 2010), Erlangen, Germany, Sept. (2010).
14. K. Sugioka, Y. Hanada, H. Kawano, I. S. Ishikawa, A. Miyawaki, and K. Midorikawa: "Nanoaquarium integrated with functional microcomponents for study on Phormidium assemblage", 29th Int. Cong. on Applications of Lasers & Electro-Optics (ICALEO 2010), Anaheim, USA, Sept. (2010).
15. K. Ishibashi, A. Hida, S. Moriyama, T. Fuse and T. Yamaguchi (**Keynote Lecture**), "Carbon nanotubes and graphenes for building blocks of nanodevices", 11th Edition of the "Trends in NanoTechnology" International Conference (TNT2010), Braga, Portugal, Sept. (2010).
16. K. Ishibashi, A. Hida, S.Y. Huang and T. Nishio: "Carbon nanotubes and semiconductor nanowires for building blocks of quantum nanodevices", McGill-RIKEN Joint Workshop on Nanotechnology and Green Chemistry, Mont Tremblant, Quebec, Canada, Sept. (2010).
17. H. Ohmori; "Nanoprecision Micro-mechanical Fabrication based on ELID-technologies", Nanoprecision Micro-mechanical Fabrication Conference, Taipei, Taiwan, Sep. (2010).
18. H.Ohmori: "Ultra-fabrication Technologies for Sustainable Manufacturing", 2010 International Joint Workshop on Advanced Micro Fabrication (2010 IWJWAMF), Kaohsiung, Taiwan, Sept. (2010).
19. S. Kunitmura: "Handheld total reflection X-ray fluorescence spectrometer with picogram detection limits", China 2010 XRS Conference, Shanghai, China, Sept. (2010).
20. E.J. Takahashi, P. Lan, and K. Midorikawa: "Infrared Two-Color Multicycle Laser Field Synthesis for Generating an Intense Attosecond Pulse", The 2010 International Symposium on Ultra-fast Phenomena and Terahertz Waves (ISUPTW 2010), Xian, China, Sept. (2010).
21. K. Midorikawa: "Attosecond Nonlinear Optics", 18th International Symposium on Gas Flow and Chemical Lasers and High Power Lasers (GCL-HPL 2010), Sofia, Bulgaria, Aug.-Sept. (2010).

22. T. Kanai, A. Suda and K. Midorikawa: "Nonlinear wavelength conversion of high order harmonics", International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), Kazan, Russia, Aug. (2010).
23. K. Midorikawa, E. J. Takahashi, P. Lan, and Y. Nabekawa: "High harmonic generation by high energy OPA source", 17th International Conference on Ultrafast Phenomena, Snowmass Village, USA, July (2010).
24. K. Sugioka: "Ultrafast laser micro and nano processing - fundamentals to applications", 2nd Int. School on Laser-surface interactions for new materials production: tailoring structure and properties, Venice, Italy, July (2010). Tutorial
25. S. Nakashima, K. Sugioka, K. Midorikawa: "Nanofabrication of GaN by ultrafast laser", International Conference Fundamentals of Laser Assisted Micro- & Nanotechnologies (FLAMN-10), Sankt-Peterburg, Russia, July (2010).
26. H. Ohmori: "Ultra Fabrication Technologies for Sustainable Development of Advanced Devices and Components", 9th International Conference on Frontiers of Design and Manufacturing, Changsha, China, July (2010).
27. K. Midorikawa: "Nonlinear Fourier transform spectroscopy using an attosecond pulse train", Gordon Research Conference: Multiphoton Processes, Tilton, NH, USA, June (2010).
28. K. Sugioka, S. Nakashima, and K. Midorikawa: "Nanofabrication of GaN by ultrafast laser", 2010 Int. Conf. on Fundamentals of Laser Assisted Micro- and Nanotechnologies (FLAMN-10), St. Petersburg, Russia, June (2010).
29. K. Ishibashi, A. Hida, S. Y. Huang, T. Nishio: "Carbon nanotubes and semiconductor nanowires for building blocks of quantum nanodevices", International Workshop on Physics of Micro and Nano Scale Systems, Ystad, Sweden, June (2010).
30. K. Ishibashi and A. Hida: "Carbon nanotube quantum dots and their molecular scale nanostructures", The 37th International Symposium on Compound Semiconductors (ISCS2010), Takamatsu, Japan, May –June (2010).
31. H. Ohmori: "Unique and Unusual Application of Ultraprecision ELID Grinding and Diamond Cutting", International Optical Design Conference/Optical Fabrication and Testing, Jackson Hole, USA, June (2010).
32. K. Midorikawa: "Infrared two-color multicycle laser field synthesis for intense attosecond pulse generation", 7th Asian-Pacific Laser Symposium (APLS 2010), Jeju, Korea, May (2010).
33. K. Midorikawa: "Intense high harmonics generation and its application at RIKEN", 12th International Conference on X-Ray Lasers, Gwangju, Korea, May-June (2010).
34. K. Isobe, A. Suda, H. Hashimoto, F. Kannari, H. Kawano, H. Mizuno, A. Miyawaki, and K. Midorikawa: "High-resolution microscopy based on cyclic sequential multiphoton excitation," The 2nd Shanghai Tokyo Advanced Research Symposium on Ultrafast Intense Laser Science, Xiamen, China, May (2010).
35. Y. Kawano: "Terahertz sensing, imaging, and applications", 2010 CMOS Emerging Technologies Workshop, Whistler, BC, Canada, May (2010).
36. Y. Kawano: "On-chip terahertz-wave imaging for medical care", 1st Annual World Congress of Immunodiseases and Therapy (WCIT 2010), Beijing, China, May (2010).
37. K. Midorikawa: "Attosecond Nonlinear Optics", International High-Power Laser Ablation Conference, Santa Fe, USA, Apr. (2010).
38. K. Sugioka, Y. Hanada, H. Kawano, I. S. Ishikawa, A. Miyawaki, and K. Midorikawa: "Nanoaquariums fabricated by femtosecond laser for exploration of dynamics and functions of microorganisms", 2010 Int. Conf. on High-Power Laser Ablation (HPLA 2010), Santa Fe, USA, Apr. (2010).
39. 緑川克美: "高次高調波による XUV 光科学の進展", レーザー学会学術講演会第 31 回年次大会、1 月、調布 (2011).
40. 河野行雄: "半導体・ナノカーボンによるテラヘルツ波センシング・イメージング", テラヘルツテクノロジーフォーラム・平成 22 年度・第 2 回技術検討会、1 月、和光 (2011).
41. 河野行雄: "半導体・カーボン材料による量子ナノデバイスを用いたテラヘルツ波センシング・イメージング", レーザー学会・年次大会、1 月、調布 (2011).
42. 河野行雄: "ナノデバイス工学分野におけるテラヘルツイメージングの研究", 第 4 回テラヘルツ・電磁波応用研究会、12 月、長野 (2010).
43. 緑川克美: "私の研究", さきがけ「光の創成・操作と展開」平成 22 年度第 2 回領域会議、11 月、つくば (2010).
44. 河野行雄: "高機能テラヘルツ電磁波計測の開拓とメゾ・ナノ系量子伝導研究への応用", 極限コヒーレント光科学研究会、11 月、東京 (2010).
45. 磯部圭佑: "非線形光学顕微鏡の基礎と最新技術" 第 8 回先端光量子科学アライアンスセミ

- ナー”、10 月、和光 (2010).
46. 緑川克美：“アト秒レーザー：光科学の新たな地平”、第 71 回応用物理学会学術講演会、9 月、長崎 (2010).
 47. 緑川克美：“高次高調波とアト秒科学”、第 71 回応用物理学会学術講演会、9 月、長崎 (2010).
 48. 杉岡幸次、緑川克美、Ya Cheng、Zhizhan Xu：“” 時空間ビーム整形によるフェムト秒レーザガラス内部 3 次元加工”、平成 22 年電気学会電子・情報システム部門大会、9 月、熊本 (2010).
 49. 杉岡幸次：“レーザ加工分野の最新動向”、光産業技術振興協会光産業動向セミナー、9 月、東京 (2010) .
 50. 緑川克美：“高次高調波とアト秒科学”、第 55 回物性夏の学校、8 月、愛知 (2010).
 51. 杉岡幸次：“” ビーム整形によるマイクロ・ナノ加工”、光産業技術振興協会平成 22 年度第 2 回多元技術融合光プロセス研究会、8 月、東京 (2010).
 52. 河野行雄：“半導体・ナノカーボンデバイスによるテラヘルツ近接場顕微イメージングと応用”、“テラヘルツ分光計測とイメージング” 研究討論会、8 月、福井 (2010).
 53. 石橋幸治：“カーボンナノチューブ・半導体ナノワイアを用いた量子ナノデバイス”、第 4 回 稲盛フロンティア研究講演会『ナノエレクトロニクス・デバイスの新潮流』、6 月、福岡 (2010).
 54. 杉岡幸次、緑川克美、花田修賢、石川依久子、河野弘幸、宮脇 敦史：“フェムト秒レーザによるナノ水族館作製と微生物動態分析への応用”、第 73 回レーザ加工学会講演会、5 月、大阪 (2010) .
 55. 河野行雄：“半導体・ナノカーボンデバイスを用いた高感度・高分解能テラヘルツイメージング”、日本学術振興会・「テラヘルツ波科学技術と産業開拓」第 182 委員会・第 6 回研究会、4 月、東京 (2010).